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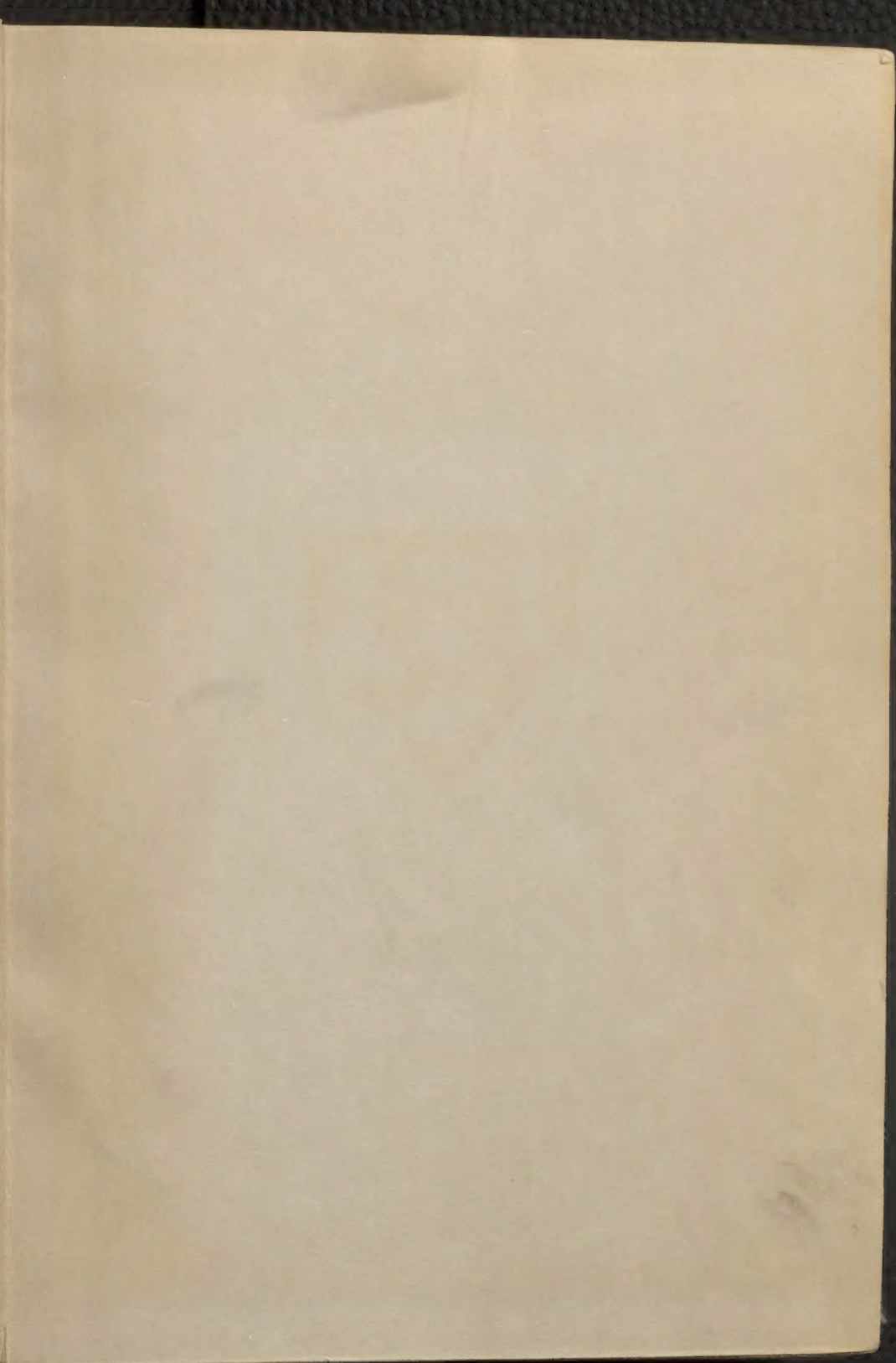
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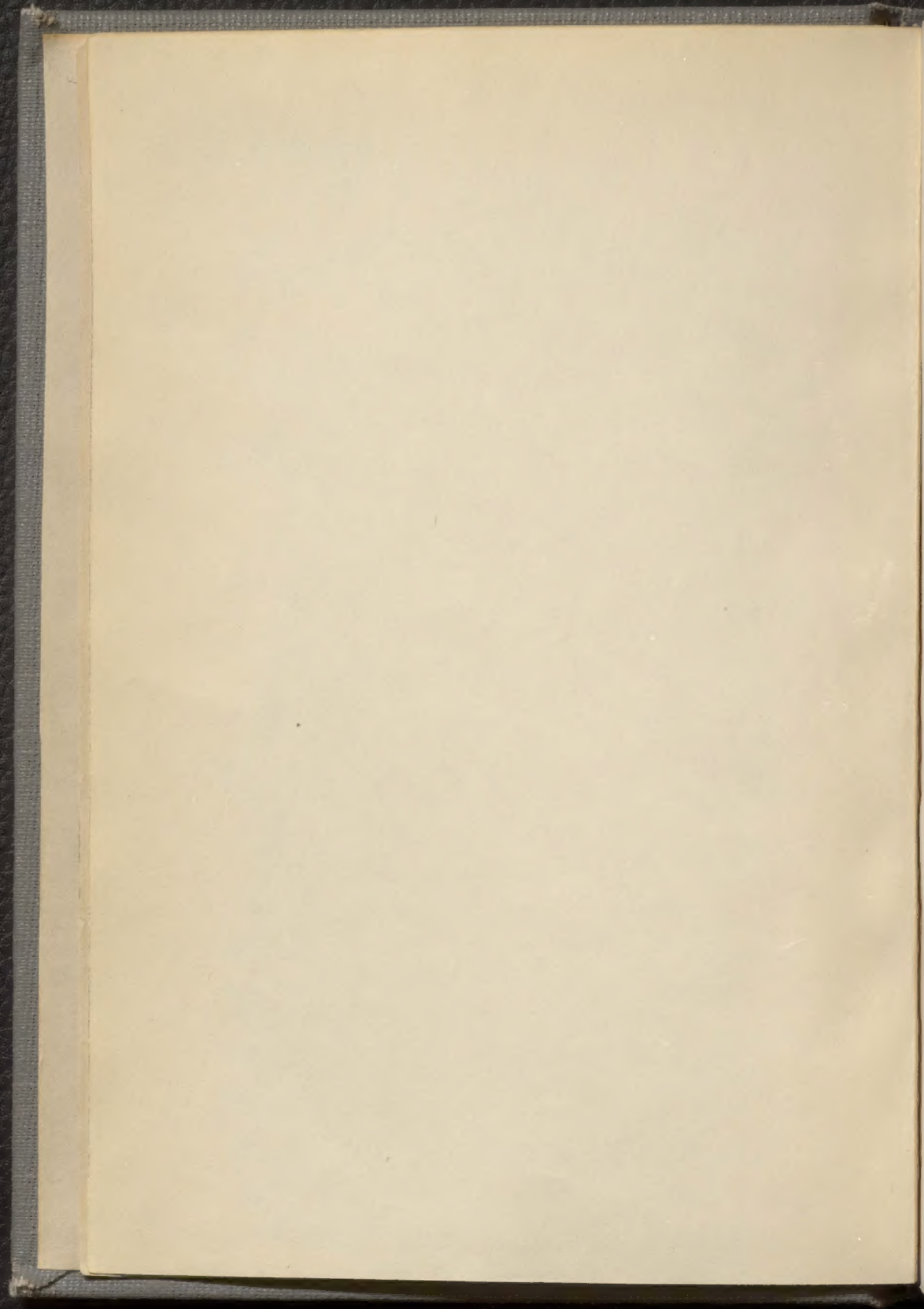


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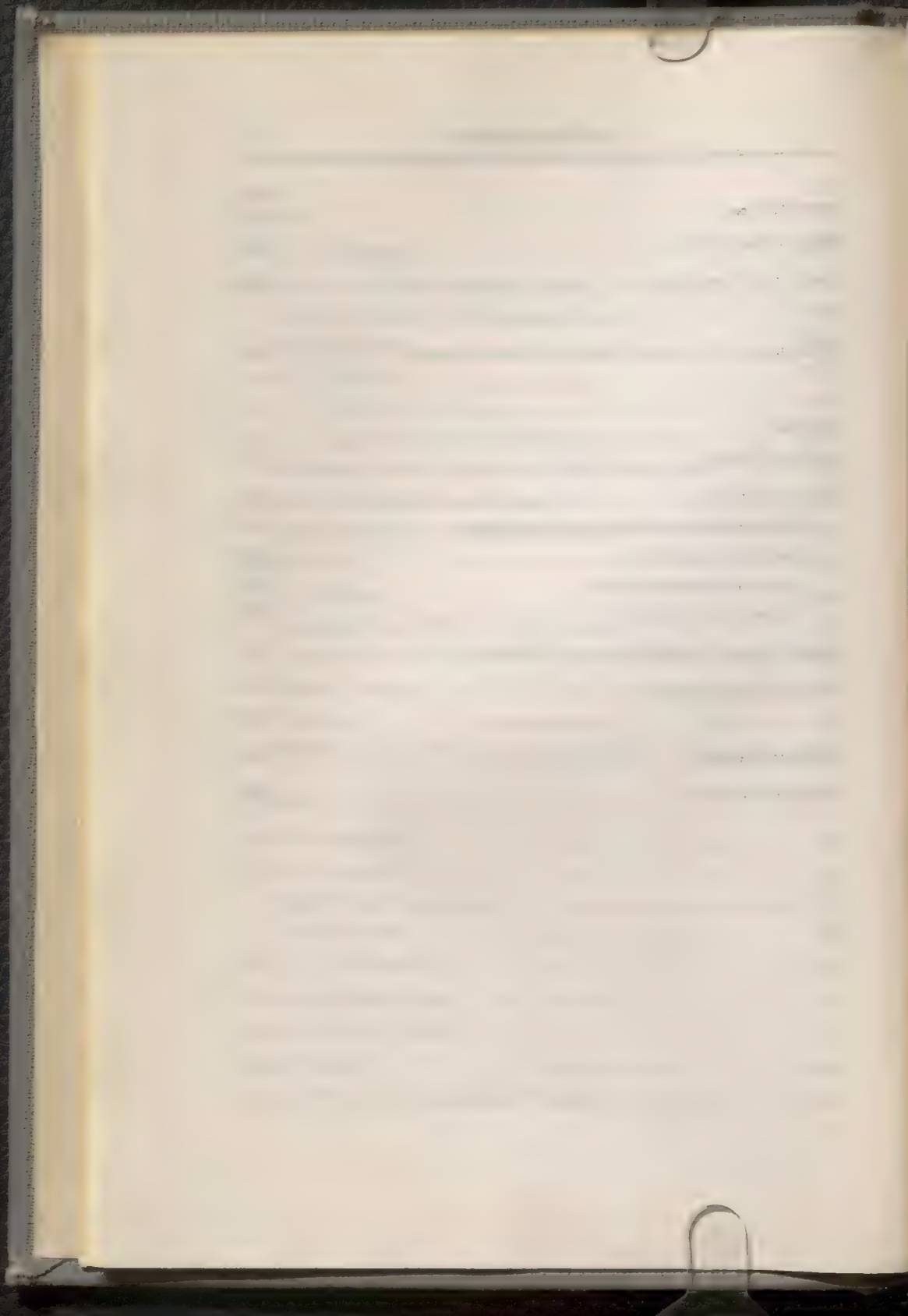
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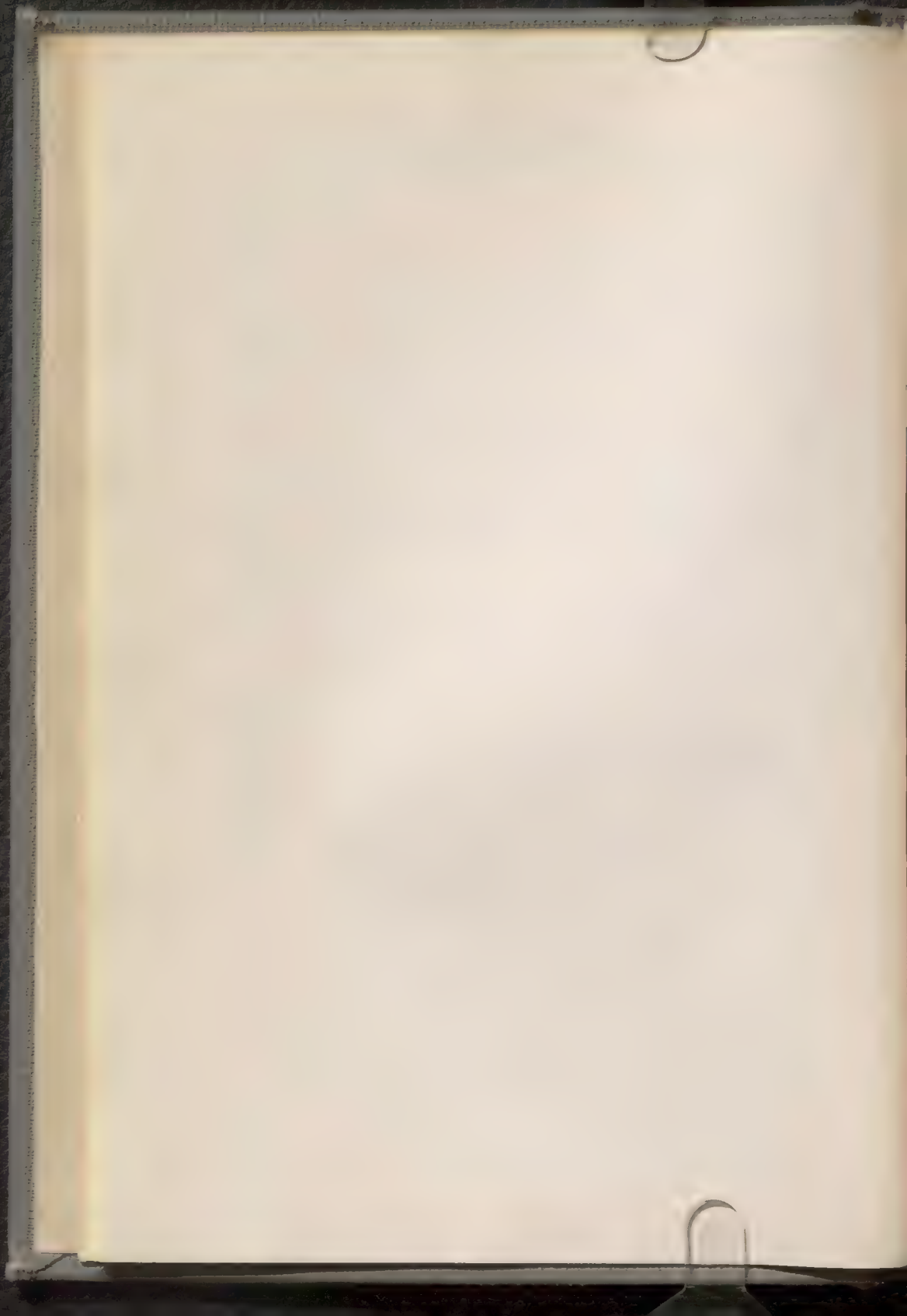
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NOTE REGARDING REVISIONS

The entries on pages 1 to 16 have been
revised to 1st November, 1960.

Pages 41 to 116 are, for technical reasons,
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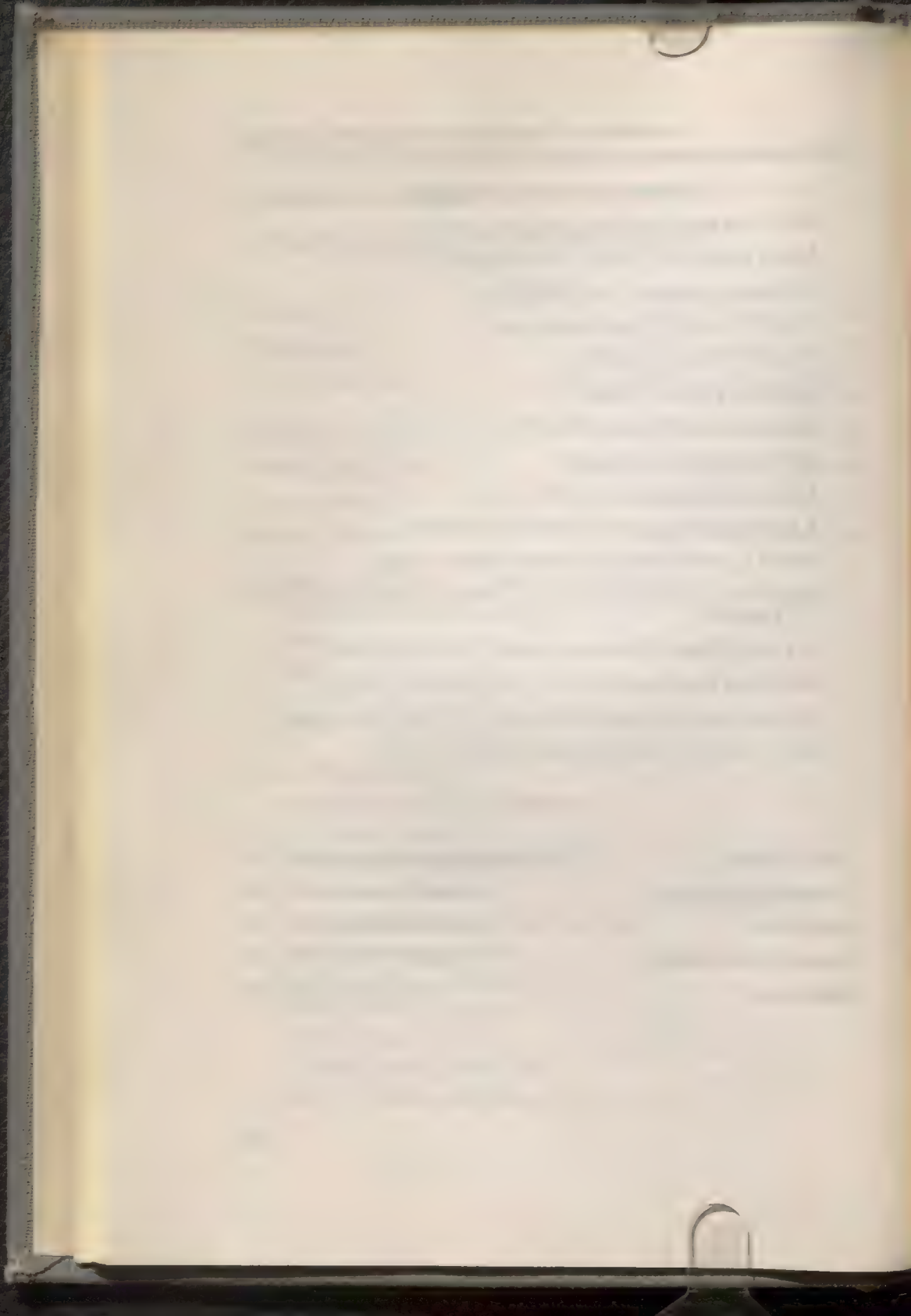
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A BRIEF HISTORY OF THE UNIVERSITY

In 1813 the Hon. James McGill, a leading merchant and prominent citizen of Montreal, died and left in his will a property of forty-six acres and a sum of £10,000 to the already existing Royal Institution for the Advancement of Learning upon condition that the latter erected "upon the said tract or parcel of land, an University or College, for the purposes of education and the advancement of learning in this Province"; and further upon condition that "one of the Colleges to be comprised in the said University shall be named and perpetually be known and distinguished by the appellation of 'McGill College'."

Owing to a lack of funds and persistent opposition the complete University, which had been planned by the Royal Institution, was not built, but after years of litigation and effort, the University of McGill College was opened in 1829 with what remained of James McGill's legacy as its endowment; and teaching then started in the Faculties of Medicine and Arts. The Medical Faculty grew steadily, but the Faculty of Arts had a most delicate infancy, and by the middle of the century was still scarcely alive. In 1852 an amended Charter was secured and a new era of progress and success began with the appointment in 1855 of Sir William Dawson as Principal, a position which he held for thirty-eight years.

Since 1855 the University has grown vigorously, dividing itself into further faculties. In 1899 the Royal Victoria College was opened, a gift of Baron Strathcona, to provide separate teaching and residential facilities for women students. Gradually, however, classes for men and women were merged, and now the University is almost completely coeducational. In 1907 Macdonald College was established at Ste. Anne de Bellevue, as a residential college for Agriculture, Household Science, and the School for Teachers. This general development was greatly facilitated by the generosity of Sir William Macdonald, whose gifts to the University included a Physics Building, a Chemistry and Mining Building, and a new Engineering Building, in addition to the college named after him.

The University had about a thousand students at the beginning of the present century. Before the First World War the number had approximately doubled and after the Second World War it rose rapidly until it reached over eight thousand in the 1948-49 session. At present about seven thousand, five hundred students are taking regular university courses. During this half-century benefactors, both public and private, have brought the total endowments to more than \$60,000,000. New buildings have been erected or acquired to provide the undergraduate and research facilities needed by the increased student body. These include Douglas Hall and Wilson Hall, residences for men, and a large extension of the Royal Victoria College for women. Since 1945 the following

GOVERNMENT OF THE UNIVERSITY

buildings have been added: Purvis Hall for the School of Commerce, Chancellor Day Hall for the Faculty of Law, new quarters for the Faculty of Music, the Donner Building for medical research, the Radiation Laboratory and Cyclotron, and the Eaton Electronics Building. A new Physical Sciences Centre was opened in 1951 and a large extension of the Redpath Library was completed in 1953. In 1959 the McConnell Engineering Building, the gift of Mr. J. W. McConnell was opened. The Sir Arthur Currie Memorial Gymnasium and Armoury, built in 1939, has been extended to include a swimming pool opened in 1950 and a Winter Stadium which was added in 1956. A similar growth has been maintained in the buildings and equipment of Macdonald College.

At the present time further expansions are being planned to accommodate the greatly increased number of students the University will have in a few years' time.

GOVERNMENT OF THE UNIVERSITY

McGill University is a Corporation created by a Royal Charter granted by the Crown of the United Kingdom, a general supervisory power being retained by the Crown and exercised through the Governor General as *Visitor*.

The *Governors* of the University constitute the Royal Institution for the Advancement of Learning, a corporation existing under the laws of the Province of Quebec, part of the official organization of the Province, but completely self-governing. In them is vested the management of finances, the appointment of professors, and other important duties. Three of the Governors are elected by the members of the Graduates' Society and other appointments are made by the nomination of the remaining members with the approval of the Visitor. The President of the Board of Governors is, *ex officio*, *Chancellor* of the University.

The *Principal* is the academic head and chief administrative officer. He is appointed by the Board of Governors (of which body he is a member). He also holds the office of Vice-Chancellor of the University.

Senate consists of the Chancellor, the Principal, the Deans of the Faculties, the Warden of the Royal Victoria College, the Director of the Institute of Education, the Director of University Extension, and the four Group Chairmen of the Faculty of Arts and Science, all *ex officio*; five Governors elected by the Board; and eight professors elected by the various faculties. The Principal is Chairman of Senate, which is the highest academic authority of the University and has control over admission, courses of study, discipline, and degrees.

The carrying out of the regulations of Senate along with primary responsibility for the conduct of the educational work of the University, is entrusted to the several Faculties and Schools.

INCORPORATED AND AFFILIATED COLLEGES

INCORPORATED COLLEGES

Macdonald College is situated at Ste. Anne de Bellevue, about twenty-five miles from Montreal. It consists of the Faculty of Agriculture, the School of Household Science, and the Institute of Education. All courses leading to the Bachelor's and Master's degrees are under the control of the Senate of McGill University; all the short term courses in agriculture, and home economics, are under the direction of the Faculty of Agriculture; and those for diplomas to teach in the Province of Quebec are prescribed and regulated by the Department of Education. (*For further particulars, see pages 4810 to 4848.*)

The **Royal Victoria College** is the Women's College of McGill University. (*For further particulars, see pages 308 to 311.*)

AFFILIATED THEOLOGICAL COLLEGES

The **Montreal Diocesan Theological College**—Principal, Rev. E. G. Jay, M.A., B.D., M.T.H., Ph.D., 3473 University Street.

The **United Theological College of Montreal**—Principal, Rev. George Johnston, M.A., B.D., Ph.D., 3506 University Street.

NOTE: The above two Colleges train students for the Ministry and grant certificates for ordination, but in 1948 they remitted their degree-granting powers to the University, which now confers degrees in Divinity upon properly qualified students. (*See page 2305.*)

The **Presbyterian College of Montreal**—Principal, Rev. Robert Lennox, M.A., Th.B., D.D., 3485 McTavish Street.

For Calendars and all necessary information, apply to the Principals of the Colleges.

INSTITUTES

INSTITUTES ATTACHED TO MCGILL UNIVERSITY

The Institutes and similar groups listed below carry out research in a number of specialized fields. In most of them facilities are available for qualified students who wish to take higher degrees.

INSTITUTE OF SPACE AND AIR LAW

An academic organization for graduate study and independent research in International Air Law, open only to those already holding law degrees or to members of the Bar. Students in the Institute may proceed to the degree of LL.M. **Director:** Professor A. B. Rosevear, Q.C.

ALLAN MEMORIAL INSTITUTE OF PSYCHIATRY

A Psychiatric Institute for teaching, research, and treatment. McGill University undertakes responsibility for the training and teaching facilities, and the Royal Victoria Hospital for the clinical work. Teaching covers both undergraduate instruction and advanced postgraduate training. **Director:** Professor D. Ewen Cameron.

ARCTIC INSTITUTE OF NORTH AMERICA

An international organization, the Montreal office (and headquarters) of which has since 1945 occupied space provided by McGill University. It supports scientific research in northern North America, and maintains a reference library, a map collection, and a small museum. It co-operates with the University in the McGill-Arctic Institute-Carnegie programme which assists graduate students in northern studies. **Director,** J. C. Reed.

INSTITUTE OF ISLAMIC STUDIES

A co-operative venture, gathering both staff and students from the Orient and the Occident, to interpret Islam as a living social force and to conduct joint research on its modern developments. Qualified students may proceed to the M.A. (or to the S.T.M.). **Director:** Professor Wilfred Cantwell Smith.

MONTREAL NEUROLOGICAL INSTITUTE

This includes a hospital for the treatment of diseases of the nervous system and laboratories for the study of basic and applied science in the general field of Neurology. The Institute houses the University Department of Neurology and Neurosurgery, and undergraduate and graduate teaching is carried out as well as research. **Director:** Professor T. B. Rasmussen.

INSTITUTE OF PARASITOLOGY

A co-operative venture between the National Research Council and the University for the study of Parasitology in man and animals. It also co-operates with public authorities in the practical applications of Parasitology. It accepts qualified students who wish to proceed to the M.Sc. or the Ph.D. degree. The Institute is housed at Macdonald College, Ste. Anne de Bellevue, near Montreal. Director: Professor T. W. M. Cameron.

THE UNIVERSITY LIBRARY

RICHARD PENNINGTON, B.A., Lib. Dip. (London), *University Librarian*.

The University Library, which is under the general management of a Committee of Senate, includes the Redpath Library and various Faculty and Departmental libraries in other buildings.

The several libraries of the University now contain over 650,000 volumes and 50,000 pamphlets and receive over 3,000 periodicals, Government publications, and transactions of various literary and scientific societies.

The University Library is rich in early printed books, in Canadiana, and in rare pamphlets of the sixteenth to eighteenth centuries. It has special collections of David Hume, Rousseau, Rilke, Blake, Napoleon, Stephen Leacock, and Rudyard Kipling; in the Stearn Library it has a collection, both of books and puppets, illustrating the history of the marionette theatre of all nations and in the William Colgate Printing Collection a library devoted to typography. The Osler Library, devoted to the history of science from classical times, is famous also for its Sir Thomas Browne collection.

The Blackader Library of Architecture has been established in honour of Captain Gordon Home Blackader, B.Arch. The Wood Library of Ornithology was presented by Colonel Casey A. Wood, M.D., LL.D., as a special research collection and reference library. The Blacker Library of Zoology, presented by Robert Roe Blacker and Nellie Canfield Blacker, is a comprehensive reference library on this special subject. It is supplemented by the Lyman Collection of books on Entomology. The Dinah Lauterman Library of Art was established in 1946. The Faculty of Medicine (including the Bibliotheca Osleriana), the Faculty of Engineering, the Faculty of Divinity, the School of Social Work, the School for Graduate Nurses, and the Royal Victoria College maintain libraries in their respective buildings. The Baillie Library of Chemistry, the Physics Library, Mining, Metallurgy, and Geology libraries are housed in the Physical Sciences Centre, and there is a departmental collection in the Department of Botany. The Library of the School of Commerce, which includes a section on Industrial Relations, is in Purvis Hall. The Faculty of Law Library is in Chancellor Day Hall. An Islamic collection is to be found in the Islamic Institute. There is also in the Redpath Library a Poetry Records Room. In Redpath too, but attached to the Library School, is a reconstituted early nineteenth century printing office for the bibliographical instruction of graduate students of the School.

Students will find in the Redpath Library building the Undergraduate Library with seating for 352 readers and with a specially selected working

collection of about 40,000 volumes. Third and Fourth year Honours students may on application obtain a permit for working in the Stack. Students writing a thesis are advised to consult the University Librarian early in their work as to books they will need which are not yet in the Library.

With the Library is affiliated the University Book Club, which supplies its members with recent publications and makes an annual contribution of books to the Library.

The Library exhibits, from time to time, displays illustrating the subjects of the University curriculum, with special reference to art, bibliography, Canadian history, and the marionette theatre.

THE UNIVERSITY MUSEUMS

1. PETER REDPATH MUSEUM

The Peter Redpath Museum, a dignified building in the Neo-Greek style situated between the University Library and the Arts Building, was erected by the donor whose name it bears and was handed over to the University in 1882, the architects being Hutchison and Steele. It is the only building in the University designed solely for museum purposes. It contains, on three floors, a great variety of museum material:

Top floor—Zoology: Vertebrates and invertebrates, including the Carpenter Collection of Mollusca.

Second floor—Geology: Introductory exhibits; Dawson Collection of Palaeontology; Ferrier Collection of minerals; and a condensed exhibition of Economic Geology.

Ground floor—Ethnology: Synoptic exhibit of primitive native cultures from North America and Africa; Lyman Entomological Collection.

Director, Mrs. Alice Johannsen Turnham; Curator of Vertebrate Zoology, Austin W. Cameron; Curator of Invertebrate Zoology, Vincent Conde; Curator of Entomology, G. M. Moore; Curator of Geology, Mrs. J. S. Stevenson; Curator of Education, H. G. Ferrabee; Assistant in Education, Alice J. Johnstone.

UNIVERSITY MUSEUMS

2. McCORD NATIONAL MUSEUM

The McCord National Museum has been recently moved to 3607 Drummond Street where it is operated as a research centre for students and specialists in Canadian history. Visits to the Museum are by appointment only. *Curator of Anthropology*, G. R. Lowther; *Curator of Prints and Manuscripts*, Mrs. Isabel Dobell.

Early in 1960 one room was opened for public exhibition.

3. ETHNOLOGICAL MUSEUM

Selections from this Museum, formerly housed in the Medical Building, are now on display as follows:

1. Synoptic exhibits: Eskimo, North American Indian, and African material: Redpath Museum.
2. Mediterranean Culture and Biblical World: Divinity Hall, 3520 University Street.

The remainder of the Ethnological Collection is in storage, pending provision of suitable quarters which will eventually house the Ethnological and McCord Museums under a single roof.

In addition to the above there are other collections and exhibits of a specialized nature, ordinarily open only to students but to which access may be gained by application to the Curator concerned. These include the Anatomical, Medical, and Pathological Museums, the Museum of Hygiene, the Rutherford Collection of Experimental Physics, and the Botanical, Zoological, and Architectural collections. At Macdonald College there is a teaching collection containing an herbarium, a collection of insects, and other exhibits related to Canadian agriculture.

McGill University

MONTREAL, CANADA

GENERAL INFORMATION

1960-61

ADMISSION TO THE UNIVERSITY

ENTRANCE REQUIREMENTS

The entrance requirements of the various faculties and schools of the University are given in the General Announcement, and in the separate announcements of the faculties and schools. These announcements may be obtained from the Registrar's Office.

APPLICATION FORMS

Application forms for admission to the faculties of Arts and Science (including the School of Commerce), Engineering, Medicine and Dentistry may be obtained from the Registrar's Office. Applications for admission to other faculties and schools should be made to the Deans of the faculties or the Directors of the schools concerned. All application forms give details of the certificates and records applicants must submit.

APPLICATION FOR RESIDENCE

Students who wish to apply for residential accommodation must do so on special forms. These may be obtained from the Warden of the Residence concerned or from the Registrar's Office.

ADMISSION TO THE UNIVERSITY

The admissions policy of the University is definitely selective and no guarantee can be given that a student who has complied with the minimum entrance requirements will be admitted. Students, therefore, should never come to the University until they have received official acceptance of their applications.

INQUIRIES

The Registrar's Office will be pleased to answer inquiries concerning the University and to give advice to anyone who contemplates applying for admission.

GENERAL INFORMATION

FEES

The University reserves the right to make changes without notice in the published scale of fees if, in the opinion of the Board of Governors, circumstances so require.

Fees are not refundable, except under special conditions as described in the regulations concerning remission of fees (see page 305).

I. UNIVERSITY FEES

FULL TIME REGULAR STUDENTS

These fees include all the regular charges of the University for registration, tuition, laboratories, libraries, graduation, health service, physical education, sports, games and Students' Society Fees.

Arts.....	\$425.00
Commerce.....	425.00
Dentistry (laboratory equipment not included).....	500.00
Divinity (except regular candidates for ordination).....	400.00
Education (3rd and 4th years B.Ed. and B.Ed.(P.E.)).....	425.00
Engineering and Architecture (all years).....	525.00
Nursing (Degree and Diploma Courses).....	400.00
Law (First, Second, and Third years).....	425.00
Law (Fourth year).....	350.00
Library School (includes library visits).....	425.00
(Tuition \$375.00; Travel \$50.00)	
Medicine (General Course).....	600.00
Medicine (Special Combined Course)	
1st and 2nd years.....	475.00
3rd to 7th years.....	600.00
Music.....	400.00 to 550.00
Physical and Occupational Therapy.....	400.00
Science.....	475.00
Graduate Studies (Excluding M.L.S.).....	425.00
International Air Law.....	425.00
Social Work.....	425.00
Master of Library Science—includes library visits.....	425.00
(Tuition \$375.00; Travel \$50.00)	

CONDITIONED STUDENTS

Special fee for an additional course repeated or substituted by conditioned students (one full course or two half courses)..... \$ 10.00

LIMITED UNDERGRADUATES IN THE FACULTY OF ARTS AND SCIENCE

Per course—Arts.....	\$115.00
“ “ —Commerce.....	115.00
“ “ —Science.....	125.00

FEES

Per half course—Arts.....	57.50
“ “ “ —Commerce.....	57.50
“ “ “ —Science.....	62.50

PARTIAL STUDENTS	Half Courses	Full Courses
Arts and other Faculties.....	\$57.50	\$115.00
Commerce.....	57.50	115.00
Science.....	62.50	125.00
Engineering, per hour of instruction per week, per term.	22.00	22.00
Graduate Faculty.....refer to Graduate Faculty Announcement		

Information concerning the fees for partial students in other courses may be obtained from the Chief Accountant.

The maximum fee charged for courses taken by partial students will not exceed the published fee for full time regular students, but in all other cases, partial students are subject to the following additional fees:

(a) If taking three or more courses—			
Athletics.....	\$15.00		
Health Service.....	7.00		
Students' Society.....	<u>*15.00</u>	\$37.00	
*(\$16.50 in Dentistry, \$17.00 in Engineering, \$18.00 in Law, and \$19.00 in Medicine)			
(b) If taking less than three courses—			
Grounds.....	\$ 5.00		
McGill Daily and McGill Union or Women's Union.....	<u>5.00</u>	\$10.00	
or, if desiring full Athletic and Health Service privileges—			
Athletics.....	\$15.00		
Health Service.....	7.00		
McGill Daily and McGill Union or Women's Union.....	<u>5.00</u>	\$27.00	

PAYMENTS BY INSTALMENTS

Fees, including board and residence, may be paid in two instalments, one at the beginning of the session and one on the 15th of January following. For this privilege the additional fee (payable \$2.50 with each instalment) is..... \$ 5.00

In special cases of hardship, application may be made to the Chief Accountant for more extended terms of payment.

GENERAL INFORMATION

II. SPECIAL FEES AND PENALTIES

Late registration (first week) extra.....	\$ 5.00
Late registration (second week) extra.....	10.00
Late payment fee (after specified date).....	2.00
Fine for late medical examination (<i>see pages 311 and 312</i>).....	25.00
Graduation <i>in absentia</i>	10.00
Duplicate Diploma.....	10.00
Certified copy of student's record.....	1.00
Additional copy (at same time).....	.50
Duplicated copies of student's record (12 copies).....	2.00
Re-reading examination paper.....	10.00
Supplemental examinations, each paper.....	10.00
Rental of microscope (<i>per term</i>).....	7.50
Rental of microscope (<i>for the session</i>).....	12.00

III. STUDENTS' SOCIETY FEES

University fees, listed on page 302, include an annual fee of \$15.00 (\$16.50 in Dentistry, \$17.00 in Engineering, \$18.00 in Law, and \$19.00 in Medicine) for the support of student organizations. Partial students taking three or more full courses are required to pay an additional fee, as set forth on page 303. The Dentistry fee includes \$1.50 for the Dental Review; Medical and Law fees include \$2.00 for the Medical and Law Journal respectively.

The men's fee is distributed as follows: McGill Union \$3.50; McGill Daily \$1.50; Students' Executive Council \$9.00; Undergraduate Society \$1.00. In Law the Undergraduate Society receives \$2.00; in Medicine and Engineering \$3.00.

The women's fee is distributed as follows: Women's Union \$3.50; McGill Daily \$1.50; Students' Executive Council \$9.00; Undergraduate Society \$1.00.

The fee of students in the Faculty of Graduate Studies is distributed as follows: McGill Union or Women's Union \$3.50; McGill Daily \$1.50; Postgraduate Students' Society \$2.00.

IV. ATHLETICS, PHYSICAL EDUCATION, AND RECREATION

Free use of the gymnasium and swimming pool, rinks, tennis courts, playing fields, etc., is included in the University fees listed on page 302, and \$15.00 of the fees paid by regular undergraduates is allocated to the Department of Athletics, Physical Education, and Recreation to support its programme.

REGULATIONS FOR PAYMENT OF FEES

1. Fees are due and payable at the Accounting Office immediately after registration; exact dates are shown in the announcements of various Faculties and Schools. A late fee of \$2.00 is charged for payment after the specified dates, and no additional days of grace are allowed.
2. The university does not issue bills for fees. Each student is required, at the time of registration, to complete a fee account giving full details of his fees for the session. To ensure identification, students or parents should enclose the fee account when paying fees.
3. Fees may be paid in two instalments, one at the beginning of the session, and one on January 15th following. In such cases the instalment fee of \$5.00 is charged.

1st Instalment

One half of the total fees plus \$2.50 instalment fee. Deduct deposits already paid.

2nd Instalment

Balance of total fees plus \$2.50 instalment fee.

4. Students registering late pay their fees at the time of registration, failing which they become subject to the late fee and the provisions of the following paragraph:

As soon as possible after the prescribed dates for the payment of fees the Chief Accountant will send to the Dean of each Faculty a list of the registered students who have not paid their fees. The Deans will thereupon suspend them from attendance until such time as the fees are paid or a satisfactory arrangement is made with the Chief Accountant.

5. Further details concerning fees in the Faculty of Graduate Studies and Research are given in the announcement of that Faculty.

REGULATIONS CONCERNING REMISSION OF FEES TO STUDENTS WHO LEAVE THE UNIVERSITY DURING THE COURSE OF THE ACADEMIC YEAR

1. Students withdrawing from the University must cancel their registration at the Registrar's Office.
2. In the case of students who, in spite of the fact that they leave the University before the end of the academic year, receive full credit for the year towards their degree, there shall be no refund of fees.
3. In the case of students who leave during the academic year and do not receive credit beyond the period of their attendance, the fees shall be remitted on the following basis:

GENERAL INFORMATION

(a) In those Faculties where the academic year is divided into two terms, half of the annual fees shall be remitted to a student who leaves prior to the beginning of the second term.

(b) In those Faculties where the year is divided into three terms, one-third of the fees shall be returned for each term that begins after the departure of the student.

4. No fees shall be refunded for any term during which the student has attended classes, even though he leaves before the term has finished.

5. Residence fees are payable for the full academic year and will not be refunded, except in special circumstances.

EXPENSES

It will be seen that each full time regular student pays annually an inclusive University Fee (*see page 302*). There are no other regular fees and the only extras are for late registration, for graduation *in absentia*, etc., as listed above. Consequently the expenses of a student may be estimated by adding this fee and the cost of board and lodging (*see pages 306 to 311*). Books are necessarily a variable expense but probably \$60 a year would be their average cost in Arts and Science. Personal expenditure upon clothes, amusements, etc., is still more variable and no useful estimate is possible.

PART-TIME EMPLOYMENT

Inquiries regarding placement, part-time work, or summer employment should be directed to the University Placement Service. However, students taking a regular degree course generally have insufficient leisure to make heavy part-time work during the term advisable, and they are recommended not to rely upon earning any money while actually at college.

BOARD AND RESIDENCE

The University reserves the right to make changes without notice in the published scale of fees if, in the opinion of the Board of Governors, circumstances so require.

I. FOR MEN

Applications submitted after July 1st for residence in Douglas Hall or Wilson Hall will not normally be considered. Residents are required to vacate their rooms within forty-eight hours of last examination or of graduation.

DOUGLAS HALL OF RESIDENCE

Douglas Hall was opened in September 1937. It is built on the staircase plan, each student normally having his own study-bedroom and sharing a sitting room with two other men, the three study-bedrooms and the sitting room forming a self-contained and separate suite. The residence has accommodation for approximately 150 students. Meals, under the supervision of a qualified dietitian, are served in the attractive refectory and residents have in addition the use of adequate common rooms, play rooms, etc.

Bedding and towels are provided.

A House Fee of \$6.00 is collected by the University on behalf of the Resident Students' Society, and is payable with the Board and Residence fees.

NORMAL SESSIONAL FEES FOR BOARD AND RESIDENCE

Engineering and Architecture:

First year.....	\$685.00
Subsequent years.....	650.00
Arts, Science, Commerce, Law.....	685.00
Medicine and Dentistry (Fourth year).....	720.00
Medicine and Dentistry (lower years).....	750.00

Students sharing a double study-bedroom will be allowed a rebate of \$40.00 on the above fees.

WILSON MEMORIAL HALL

Wilson Memorial Hall, acquired in 1945, has accommodation for approximately seventy students, most of whom share a double room. Otherwise the facilities of dining room and common rooms are similar to those at Douglas Hall. Bedding and towels are provided.

A House Fee of \$8.00 is collected by the University on behalf of the Resident Students' Society, and is payable with the Board and Residence fees.

NORMAL SESSIONAL FEES FOR BOARD AND RESIDENCE

Engineering and Architecture (upper years).....	\$620.00
Arts, Science, Commerce, Law, and First year Engineering....	650.00

Students sharing a double room will be allowed a rebate of \$40.00 on the normal fee. A further rebate of \$20.00 will be allowed in the case of a few of the less favourably situated rooms.

One half of the fee is payable at the beginning of the session, and the balance on January 15th.

Students who are in residence for any additional period are charged extra at the rate of \$3.50 per day.

GENERAL INFORMATION

Owing to limited accommodation, the normal time of residence in either Hall is restricted to four years, or the time required to obtain one McGill degree, whichever is shorter. Applications should be submitted as early as possible, even if the applicant has not received his acceptance by the University.

Any resident leaving the halls during the term will be held responsible for his room, until a replacement is found.

Accepted residents are required to make a deposit of \$25.00 which will be included in their residence fees. It will be refunded only if notification that they are not coming is received one month before they are expected to move into their rooms.

During term the University will not cancel the contract for residence except in special circumstances such as serious illness or withdrawal from the University.

LODGINGS

The University has a register of lodgings which have been inspected and approved. For information about these rooms students should apply in person to the Rooms Registry in the Union during September. The Registry gives information to those who come to its office but does not itself reserve lodgings and it cannot answer correspondence.

The cost of board and lodging in approved rooms varies from \$70 to \$85 per month. Separately, board costs from \$65, and a room from \$35, upwards per month.

Board is furnished in the McGill Union at low rates.

Board and lodging for men may also be obtained in the Diocesan College and the Presbyterian College, which are affiliated with the University.

II. FOR WOMEN

THE ROYAL VICTORIA COLLEGE

The main building of the Royal Victoria College was erected in 1899 under the terms of the endowment created by the Rt. Hon. Baron Strathcona and Mount Royal for the education of women at McGill University. A west wing was added in 1930-31 and an east wing in 1948-49. In all, the College provides residence accommodation for 313 students. McLennan Hall, 3480 Ontario Avenue, formerly the home of Miss Isabella C. McLennan and donated by her to the University, together with the Royal Victoria College Annex, a large house at 1009 Sherbrooke Street West, provides additional accommodation for 46 students. All meals are served at the Royal Victoria College. Students living in McLennan Hall, however, have their breakfast there.

All women undergraduates registered at McGill University are automatically members of the Royal Victoria College, whether in residence or not, and are required by the University to complete the registration forms of the Royal Victoria College.

The activities of all women students centre in the College, which contains a separate library, swimming pool, lounges, cafeteria, gymnasium facilities, health offices, infirmary, and accommodation for the Women's Union, as well as residential quarters and the Warden's office.

Swimming Pool

The swimming pool, a gift to the Royal Victoria College, was formally opened on November 27th, 1959. This pool is available to all women students at McGill and serves for both recreational swimming and teaching. Instruction in learning how to swim, in synchronized swimming and in diving, as well as the First year programme in swimming is given by the Physical Education Department. The pool is used also for classes in physio-therapy.

The Warden has general supervision over all the academic activities of the women students. Under the University statutes, she is responsible for "the preservation everywhere of the good character and good name of the College." To this end she has jurisdiction over all women's extra-curricular activities.

APPLICATION FOR RESIDENCE

(a) Out-of-Town Applicants:

The Royal Victoria College has the responsibility for residence for all women undergraduates whose homes are not in Montreal. Only in exceptional cases may an undergraduate who is not residing with her parents or guardian live out of residence, and then only with the Warden's written approval.

All women students whose homes are not in Montreal must make application for residence in the College, as well as for a Faculty or School, before their academic applications can be considered.

Residential application forms may be secured either from the Registrar's Office of the University or from the College, and when completed should be addressed to The Warden, Royal Victoria College, McGill University, Montreal. It is to the candidate's advantage to make application early, preferably by April 30th. (Students should not await the results of their matriculation examination before applying.)

Before a student can be officially accepted for residence, she must fulfil all the entrance requirements of McGill University, be acceptable for a full course leading to a degree or diploma, and comply with the health regulations (*see paragraph on Health, page 311*).

GENERAL INFORMATION

Admission is based on scholarship, character, health, and general promise.

(b) Montreal Applicants:

There may be limited accommodation in the College, during the 1960-61 session, for Montreal students who may wish to live in residence during some part of their academic career. Information regarding this may be obtained from the Warden's Office of the Royal Victoria College.

OPENING AND CLOSING OF RESIDENCES

Registration dates for women students in Arts, Science and Commerce are as follows:

First year—Thursday, September 15th.

Upper years—Tuesday and Wednesday, September 20th and 21st.

Residences will open for *First year students* on Tuesday, September 13th when the mid-day meal will be the first to be served; for new upper year students on Sunday, September 18th and for returning upper year students on Monday, September 19th.

Students cannot enter residence before the dates specified.

All students except seniors are expected to leave in May within 48 hours of their last examination; seniors, within 24 hours after Convocation.

ROOMS AND FURNISHINGS

In the Royal Victoria College there are 279 single and 17 double rooms. They are furnished with the following: bed, pillow, bureau, desk, book-case, desk chair, waste-basket, study lamp. Blankets (2), sheets, pillow cases, bath towels, and face towels are provided. Students should supply their own bed covering and bureau scarf.

At McLennan Hall and the Annex, the rooms are large and accommodate two or three students each. Furnishings are similar to those described for the Royal Victoria College.

RATES

The rates for residence covering the period of the University Session (ARTS, SCIENCE AND COMMERCE) *exclusive of the Christmas holidays*, are:

Royal Victoria College

Single room and full board.....	\$760.00
Double room (17 only) and full board.....	730.00

Annex

All rooms and full board.....	\$700.00
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McLennan Hall

All rooms and breakfast only.....	\$415.00
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Additional meals may be obtained at the Royal Victoria College cafeteria at the regular prices.

Students who are in faculties with longer sessions, or who remain in residence for any additional period for purposes of instruction, practice teaching or examinations, are charged at the rate of \$25.00 per week or \$4.00 a day extra.

A House Fee of \$10.00 is collected by the University on behalf of the Resident Students' Society, and is payable with the Board and Residence fees. This amount includes \$2.00 key deposit which is refunded at the end of the session.

HEALTH

The health service for both resident and non-resident students is part of the University Health Service. Dr. M. Dorothea Mellor, of the Health Service, is assisted by resident nurses.

No student who has an infectious illness or who comes from a house in which there has been an infectious illness may enter or return to the College unless the regulations of the Provincial Department of Health are observed. In all such cases the Warden must be notified and official consent secured. All students entering the University for the first time are required according to Provincial regulations to present a certificate or other satisfactory evidence of successful vaccination within seven years, or of insusceptibility to vaccine within five years.

HEALTH SERVICE (MEN AND WOMEN)

The objective of the University Health Service is to ensure that every student enrolled at McGill University shall be enabled to obtain the maximum protection for the development and maintenance of health at reasonable cost, during the University sessions.

The facilities of the Health Service provide for the early discovery of any defects of health and direct the student to competent treatment for any serious defect which may be found. The personnel of the Health Service have all been chosen for their ability to give competent and sympathetic service.

The Health Service provides treatment for minor illnesses or accidents.

It is not the function of the Health Service to undertake the care of serious cases beyond the initial diagnosis and emergency treatment. When necessary the patient will be referred to the physician or surgeon of his choice or to the public service of designated hospitals. The cost of such services is then the student's responsibility.

The families of out-of-town students will be notified of any serious illness, and the action of the Health Service will be guided by their wishes or the advice of their family doctor.

GENERAL INFORMATION

Students entering the University are presumed to be in good health. If they are not, a statement to the contrary should be furnished to the Health Service before registration in the University is completed.

All students entering the University for the first time are required to present a certificate, or other satisfactory evidence, of successful vaccination against smallpox.

The University is not responsible for damages of any kind resulting from accidents or athletic injuries which may occur, nor for the medical or hospital expenses incurred by any person suffering an accident or athletic injury. In the case of injuries which occur during intercollegiate or intramural competition in athletics or in preparation therefor, the Health Service will render treatment, including hospitalization, if necessary, but any hospital expense in connection therewith shall be limited to the same maximum amount and conditions as in the case of hospitalization for illness. If circumstances appear to justify such action, the Director of the Department of Athletics, Physical Education, and Recreation may authorize additional services or contributions towards such cost.

UNIVERSITY MEDICAL EXAMINATIONS

The University requires all students (whether regular, limited or partial students, and whether undergraduate or graduate students) to present themselves for examination by the University Health Service as follows:

- (i) In his, or her, first year, as a member of any Faculty, every student must present himself, or herself, for general clinical examination and routine laboratory tests. Examinations are given by appointment with the Health Service. Students who fail to comply with this requirement by December 1st in any academic year will be subject to a fine of \$25.00, and students who fail to comply with it by December 15th will be suspended from membership of the University. Every student who has been in continuous attendance must be medically re-examined by the Health Service in his Sixth year at the University. Every student who has spent one or more academic years away from the University must be medically re-examined during the year in which he re-registers.
- (ii) In each academic year during their membership of the University, other students must present themselves, at a date to be announced, for a chest x-ray examination. Examinations are given by appointment with the Health Service. Students who fail to comply with this requirement by a date to be announced, in any academic year, will be subject to a fine of \$25.00; and students who fail to comply with it by a final date will be suspended from membership of the University.

Participation in athletics is conditional upon the results of these examinations.

Provision is made, during the session, for the re-examination of any student who may seem to require it.

Consultative service for all students is available at the various centres of the University Health Service. These centres are located for men on the McGill Campus at 517 Pine Avenue West; for women at the Royal Victoria College; for Macdonald College at the Infirmary.

This service is optional on the part of the student. Any services obtained by the student from a private physician are the student's responsibility.

A limited number of house visits by a physician or nurse of the Health Service is undertaken as necessary for those living away from home and confined to bed.

A student who has received medical attention for an illness or accident must be declared fit by the Health Service before he may resume participation in classes or athletics.

The consultative service is included in the University Health Service fee.

In case of hospitalization when obtained through the University Health Service, payment will be made for an amount up to one-half of all public ward rates in a designated general hospital up to a maximum of \$125.00 per student in any one session of the University.

This contribution is not applicable to hospital expenses for an illness or other condition which was known or ascertained at the time of admission.

Further detailed information will be furnished each student at the time of registration.

PARKING ON UNIVERSITY GROUNDS

The University does not permit students to park automobiles or motorcycles anywhere on the Montreal campus.

Parking at Macdonald College is subject to restrictions. Further information may be obtained by applying to the office of the Vice-Principal of the College.

SPORTS FOR MEN

There is intercollegiate competition in approximately twenty different sports, including football, hockey, track, basketball, skiing, swimming, tennis, boxing, wrestling, fencing, and golf, and, in addition, there is a wide programme of intra-mural competition in various sports. The Sir Arthur

GENERAL INFORMATION

Currie Memorial Gymnasium and Swimming Pool provide accommodation for many indoor activities, while Mount Royal in Montreal and the Laurentian Mountains north of Montreal provide excellent skiing country. A student in good health thus has ample opportunities for exercise and pleasant recreation.

SPORTS FOR WOMEN

For women students there is a wide choice of voluntary sports and recreations including archery, basketball, dancing, gymnastics, skating, skiing, swimming, and tennis. Special care is taken that no student undertakes any exercise for which she is physically unsuited.

COMPULSORY PHYSICAL EDUCATION

The University requires all students in the First year of the courses leading to the B.A., B.Sc., B.Com., B.Eng., B.Mus., B.Sc.(P.&O.T.), and B.Sc.(N.) degrees to take a course in Physical Education. There are a large number of activities and sports from which students may choose in order to satisfy this regulation. Details of the programme will be published at the time of registration.

IMMIGRATION

All students entering Canada to attend courses at the University should obtain from the Dean of their Faculty, the Director of their School, or the Registrar's Office an official letter of acceptance, and should present this to the immigration authorities at the port of entry.

BRITISH STUDENTS

British students do not require passports to enter Canada but may require them if they wish to return. They are therefore advised to obtain them before leaving for Canada.

AMERICAN STUDENTS

American students do not need passports. They must, however, bring with them evidence of their American citizenship such as their birth certificate, baptismal certificate, naturalization certificate, or passport. Students coming from the United States of America who are not citizens of that country should carry evidence that they are in the United States legally, and prior to their return should obtain a re-entry permit from the American Immigration Department.

OTHER STUDENTS

All other non-Canadian students should carry passports.

UNIVERSITY BOOK STORE

The McGill University Book Store, at 3416 McTavish Street, has a complete stock of books and materials recommended by the Staff, and a supply of microscopes, engineering instruments, drawing paper, pens, pencils, note-books, etc. The prices are standard retail prices, and profits are used directly for the benefit of the students.

CALENDAR FOR THE SESSION 1960-61

1960

May 30th, Monday. Convocation.

June 16th, Thursday. School Certificate Examinations begin.

June 24th, Friday. St. Jean Baptiste Day. Administrative offices close at 1.00 p.m.

June 28th, Tuesday. French Summer School begins.

July 1st, Friday. Dominion Day. Administrative offices closed.

July 4th, Monday. Summer School in Education begins.

August 6th, Saturday. Summer School in Education ends.

August 10th, Wednesday. French Summer School ends.

August 22nd, Monday. Supplemental examinations begin in Engineering, Architecture, Agriculture, First and Fourth years Arts, Science, Commerce and Third and Fourth years B.Ed., and B.Ed.(P.E.).

August 24th, Wednesday. Last day for filing Masters' theses for Autumn Convocation.

September 1st, Thursday. Registration of Graduate Nurse students in the First year of the School for Graduate Nurses.

September 2nd, Friday. Registration in Medicine and Dentistry begins.

September 5th, Monday. Labour Day. Administrative offices closed Saturday, September 3rd and Monday, September 5th.

September 6th, Tuesday. Special and Supplemental Summer Schools for Engineering Drawing 511, 521 and 541 begin. Fall Survey School for Engineering begins. Registration in Medicine and Dentistry finishes.

September 7th, Wednesday. Lectures begin in Medicine and Dentistry. Registration of students in the Institute of Education, Third, Fourth and Fifth years Physical and Occupational Therapy.

September 8th, Thursday. Lectures begin in the Institute of Education, Third, Fourth and Fifth years of Physical and Occupational Therapy.

GENERAL INFORMATION

September 9th, Friday. Last day for receiving applications for admission to the Faculty of Graduate Studies. Examinations in French for Ph.D. students.

September 12th, Monday. Registration of Second year students (9.00-12.00) and all part-time students (1.00-4.00) in the School of Social Work. Architecture sketching school begins.

September 12th, Monday, to September 24th, Saturday. Practice teaching Second, Third and Fourth years Education.

September 13th, Tuesday. Registration of students in First year Agriculture, Household Science, and the School of Social Work.

September 14th, Wednesday. General Assembly and Reception of all students in the School of Social Work.

September 14th, Wednesday, to September 17th, Saturday, inclusive. Freshman Orientation, Agriculture and Household Science.

September 15th, Thursday. Registration of students in First year Arts (1.30-4.00), Science and Commerce (9.00-12.00), Engineering, Basic Nursing and Physical and Occupational Therapy. Last day for reports on Masters' theses. Lectures begin in the School of Social Work.

September 16th, Friday. Freshman Welcome. Conservatorium of Music opens for both practical and theoretical work.

September 17th, Saturday. Last day of registration for students in upper years of Agriculture and Household Science.

September 19th, Monday. Lectures begin in First year of Arts, Science, Commerce, Engineering, Nursing and Physical and Occupational Therapy, the Faculty of Music and in upper years of Agriculture and Household Science. Supplemental examinations begin in the Faculty of Divinity. Registration of students in the Library School.

September 20th, Tuesday, and September 21st, Wednesday. Registration of Law and Divinity.

September 20th, Tuesday. 9.00 a.m. - 4.00 p.m. Registration of students in upper years of B.A., B.Sc., B.Com. whose names begin with the letters A-L. Registration of students in the Second year of the School of Physical and Occupational Therapy. Registration of all students in Third and Fourth years B.Ed. Lectures begin in the Library School.

September 21st, Wednesday. Last day for receiving sessional registration forms approved by the Department in the Dean's Office, Faculty of Graduate Studies and Research. 9.00 a.m. to 4.00 p.m. registration of students in

CALENDAR OF DATES, 1960

upper years of B.A., B.Sc., B.Com. whose names begin with letters M-Z. Registration of all partial students in the Faculty of Arts and Science. Registration of Third and Fourth year students in B.Ed.(P.E.). Lectures begin in Second year Physical and Occupational Therapy.

September 22nd, Thursday. Lectures begin in Divinity.

September 23rd, Friday. Registration of students in upper years of Engineering, Architecture, and Nursing.

September 26th, Monday. Lectures begin in upper years of Arts, Science, Commerce, Engineering, Architecture, and Nursing, in Third and Fourth years B.Ed. and B.Ed.(P.E.), and in Graduate Studies and Law.

October 6th, Thursday. Founder's Day Convocation.

(James McGill, born October 6th, 1744, died December 19th, 1813.)

October 10th, Monday. Thanksgiving Day. No lectures. Administrative offices closed Saturday, October 8th and Monday, October 10th.

October 13th, Thursday. Supplemental examinations for Agriculture Diploma students.

October 17th, Monday. Registration for Agriculture Diploma students.

October 18th, Tuesday. Lectures begin in Agriculture Diploma courses.

October 21st, Friday. Last day for registration at the Registrar's Office and for payment of fees for students in the Faculty of Graduate Studies and Research.

November 11th, Friday. Remembrance Day Service.

December 2nd, Friday. Examination in French for Ph.D. students.

December 3rd, Saturday, to December 17th, Saturday. Examination in German for Ph.D. students.

December 14th, Wednesday. Lectures end in Agriculture and Household Science and in the Institute of Education (First and Second years).

December 15th, Thursday. Examinations begin in the Institute of Education.

December 16th, Friday. First term examinations begin in Agriculture and Household Science.

December 17th, Saturday. Last day of lectures in Arts, Science, Commerce, Engineering, Architecture, School for Graduate Nurses, Third and Fourth years Education and Physical Education, and in all other Faculties and Schools, except Social Work and the Library School.

December 19th, Monday, to December 22nd, Thursday. Midterm examinations in Physical and Occupational Therapy.

GENERAL INFORMATION

December 19th, Monday, to December 22nd, Thursday, and January 3rd, 1961, Tuesday, to January 7th, 1961, Saturday. Mid-term examinations in Arts, Science, Commerce, Engineering, Architecture, School for Graduate Nurses, Third and Fourth years Education and Physical Education.

December 20th, Tuesday. Last day of lectures in the Library School.

December 21st, Wednesday. Lectures end in the School of Social Work.

December 25th, Sunday. Christmas Day. Administrative offices closed from 1 p.m. *December 23rd, Friday* to 9 a.m. *December 27th, Tuesday.*

1961

January 1st, Sunday. New Year's Day. Administrative offices closed from 5 p.m. *December 30th, Friday*, to 9 a.m. *January 3rd, Tuesday.*

January 3rd, Tuesday. Second term begins in Law, First and Second years B.Ed. and B.Ed.(P.E.), Graduate Studies and the Institute of Education. Lectures resumed in Medicine, Dentistry, Music, and Second to Fifth years Physical and Occupational Therapy.

January 4th, Wednesday. Lectures resumed in the Library School.

January 4th, Wednesday, to January 6th, Friday. Examinations in the School of Social Work.

January 7th, Saturday, to January 20th, Friday. Practice Teaching Period, all first years, Institute of Education.

January 9th, Monday. Second term begins in the School of Social Work, Arts, Science, Commerce, Third and Fourth years B.Ed. and B.Ed.(P.E.), Engineering and Architecture, Divinity, Agriculture, Household Science, the School for Graduate Nurses and First year Physical and Occupational Therapy.

January 13th, Friday. First term ends in the Library School.

January 16th, Monday, to January 20th, Friday. Examinations in the Library School.

January 23rd, Monday. Second term begins in the Library School.

February 1st, Wednesday. Last day for application for the majority of Graduate Fellowships.

February 10th, Friday. Founder's Day at Macdonald College.

(Sir William Macdonald, born February 10th, 1831, died June 9th, 1917.)

February 17th, Friday, to February 18th, Saturday. Mid-term weekend holiday.

- February 23rd, Thursday.* Macdonald Royal.
- March 22nd, Wednesday.* Last day of lectures in Agriculture Diploma courses.
- March 31st, Friday.* Agriculture Diploma course closing exercises.
- March 31st, Friday, to April 3rd, Monday, inclusive.* Easter vacation in all Faculties and Schools. Administrative offices closed from 5 p.m. March 30th, Thursday, to 9 a.m. April 4th, Tuesday.
- April 6th, Thursday.* Last day for filing Ph.D. theses.
- April 8th, Saturday.* Lectures end in upper years of Engineering and Architecture.
- April 10th, Monday.* Examinations begin in the upper years of Engineering and Architecture.
- April 13th, Thursday.* Last day for filing theses for Masters' degrees in the Graduate Faculty.
- April 14th, Friday.* Lectures end for all other students except those in Music, Medicine, Dentistry and the Library School.
- April 17th, Monday.* Examinations begin in Arts, Science, Commerce, First year Engineering, Third and Fourth years B.Ed. and B.Ed.(P.E.), all years Law, Divinity, Agriculture, Household Science, Nursing, and the School of Physical and Occupational Therapy.
- April 19th, Wednesday, to April 21st, Friday.* Examinations in the School of Social Work.
- April 21st, Friday.* Last day for filing M.S.W. theses for Spring Convocation. Examinations begin in Music.
- April 22nd, Saturday.* Instruction terminates in Conservatorium of Music.
- April 23rd, Sunday.* Baccalaureate Service at Macdonald College.
- April 24th, Monday.* Full time field work (First year) and full time research (Second year) begin in the School of Social Work.
- April 26th, Wednesday.* Spring Survey School for Engineering begins.
- April 28th, Friday.* Last day for reports on Ph.D. theses.
- April 28th, Friday, to May 15th, Saturday.* Final Orals for Ph.D.
- April 29th, Saturday.* Last day of lectures in the Institute of Education.
- May 1st, Monday, to May 12th, Friday.* Practice Teaching period, Institute of Education.

GENERAL INFORMATION

May 5th, Friday. Lectures end in the Library School. Examination in French for Ph.D. students.

May 10th, Wednesday. Last day for reports on Masters' theses.

May 10th, Wednesday, to May 17th, Wednesday. Examinations in the Library School.

May 17th, Wednesday. Second term examinations begin in the Institute of Education.

May 22nd, Monday. Victoria Day. Administrative offices closed.

May 31st, Wednesday. Convocation.

June 2nd, Friday. Second term ends in the School of Social Work.

June 4th, Sunday. Divine Service, Institute of Education and Handicrafts courses.

June 5th, Monday. Graduation exercises, Institute of Education and Handicrafts courses.

June 5th, Monday, to June 14th, Wednesday. Examinations in First, Second and Third years Medicine.

August 24th, Thursday. Last day for filing Masters' theses for Autumn Convocation in the Faculty of Graduate Studies and in the School of Social Work.

McGill University

Montreal



General Announcement

1960-1961

PUBLICATIONS

The following official publications are issued by the University and may be obtained from the Registrar's Office.

Announcements of Faculties and Schools as follows:

General Announcement

School Certificate Examinations

Scholarships, Bursaries, and Loan Funds

Faculty of Arts and Science (Degrees in Liberal Arts and in Pure Science. There is a separate Announcement for the School of Commerce.)

Faculty of Medicine

Faculty of Medicine Postgraduate Courses

Faculty of Dentistry

Faculty of Engineering (Degrees in Engineering and in Architecture)

Faculty of Law

Faculty of Music

Faculty of Divinity

Faculty of Graduate Studies and Research

School of Commerce

Institute of Education

Library School

School for Graduate Nurses

School of Physical and Occupational Therapy

School of Social Work

Macdonald College (Faculty of Agriculture and School of Household Science)

French Summer School

Extension Courses

The Directory of Staff (University administrative officers, standing committees, and officers of instruction. Limited distribution.)

The Calendar (Available for distribution only to libraries and officials of certain institutions.)

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GENERAL ANNOUNCEMENT

ADMINISTRATIVE OFFICERS

THE UNIVERSITY

- R. E. POWELL, D.Sc. (Monmouth), LL.D. *Chancellor*
F. CYRIL JAMES, Chevalier de la Légion d'Honneur, B.Com., M.A., Ph.D.,
D.Sc., D. de l'U., D.C.L., LL.D., F.R.S.C. *Principal and Vice-Chancellor*
DAVID L. THOMSON, B.Sc., M.A., Ph.D., LL.D., F.C.I.C., F.R.S.C. *Vice-Principal*
GEORGE GRIMSON, B. Com. *Comptroller*
JOHN H. HOLTON, B.Com. *Secretary of the Board of Governors*
R. G. DEFRIES, Ing. E.T.P. (Paris) *Director of Construction Projects*
P. A. CUNNINGHAM *Superintendent of Buildings and Grounds*
COLIN M. McDUGALL, D.S.O., B.A. *Registrar*
MURIEL V. ROSCOE, A.M., Ph.D., D.Sc., LL.D. *Warden of the Royal Victoria College*
W. STANFORD REID, Th.M., M.A., Ph.D. *Warden of Douglas Hall*
RICHARD PENNINGTON, B.A. *Librarian*
E. C. KNOWLES, M.A., D.D. *University Chaplain and Student Counsellor*
ROWAN C. COLEMAN, D.S.O., M.C., B.A., LL.B. *Director of the University Placement Service*
F. S. HOWES, B.Eng., M.Sc., D.I.C., Ph.D. *Director of Extension Courses*
HARRY E. GRIFFITHS, B.Com., M.A. *Director of Athletics, Physical Education, and Recreation*

FACULTY OF ARTS AND SCIENCE

- H. N. FIELDHOUSE, M.A., F.R.S.C. *Dean*
C. D. SOLIN, M.A., Ph.D. *Assistant Dean*
J. B. BIRD, M.A. *Secretary*

SCHOOL OF COMMERCE

Director

FACULTY OF MEDICINE

- LLOYD G. STEVENSON, B.A., M.D., Ph.D. *Dean*
STANLEY M. BANFILL, B.A., M.D., C.M. *Secretary*

FACULTY OF DENTISTRY

- JAMES McCUTCHEON, M.S.D., B.A., D.D.S., F.A.C.D. *Dean*

ADMINISTRATIVE OFFICERS

FACULTY OF ENGINEERING

D. L. MORDELL, M.A., A.M.L.M.E., A.F.R.Ae.S., M.E.I.C., Mem. A.S.M.E.
Dean

J. U. MACEWAN, B.Sc., M.S.
Secretary

SCHOOL OF ARCHITECTURE

JOHN BLAND, B.Arch., A.M.T.P.I., F.R.A.I.C., A.R.I.B.A.
Director

FACULTY OF MUSIC

MARVIN DUCHOW, M.A., B.Mus.
Dean

JACK WAUD, Mus.B.
Secretary

FACULTY OF LAW

W. J. C. MEREDITH, Q.C., M.A.
Dean

R. I. CHEFFINS, B.A., LL.B., LL.M.
Secretary

FACULTY OF DIVINITY

STANLEY B. FROST, B.D., M.Th., D.Phil.
Dean

FACULTY OF GRADUATE STUDIES AND RESEARCH

D. L. THOMSON, M.A., Ph.D., LL.D., F.R.S.C.
Dean

F. C. MACINTOSH, M.A., Ph.D., F.R.S.
Secretary

LIBRARY SCHOOL

VERNON ROSS, B.S., M.A.
Director

SCHOOL FOR GRADUATE NURSES

RAE CHITTICK, B.S., M.A., M.P.H., LL.D., R.N.
Director

SCHOOL OF PHYSICAL AND OCCUPATIONAL THERAPY

GUY H. FISK, B.A., M.D., C.M., D.T.M. & H.
Director

HELEN M. GAULT, B.Sc. (P.&O.T.)
Assistant Director

GENERAL ANNOUNCEMENT

SCHOOL OF SOCIAL WORK

JOHN J. O. MOORE, M.A., Ed.D.

Director

MACDONALD COLLEGE

H. G. DION, B.Sc., Ph.D.

*Vice-Principal of Macdonald College
and Dean of the Faculty of Agriculture*

HELEN R. NEILSON M.B.E., B.H.S., M.Sc.

Director of the School of Household Science

R. H. PUXLEY

Secretary

INSTITUTE OF EDUCATION

D. C. MUNROE, M.A.

Director

McGill University

A BRIEF DESCRIPTION

McGill University, founded under a bequest of the Hon. James McGill, a prosperous Montreal merchant who died in 1813, was established as a university by Royal Charter in 1821. It is privately endowed, the trustees of its funds being the Board of Governors who constitute "The Royal Institution for the Advancement of Learning".

The University has nine faculties and eight schools. Particulars of these are given on pages 411 to 419. Eight of the faculties are situated in Montreal where the University Campus lies on the lower slopes of Mount Royal, the hill from which the city takes its name. Macdonald College at Ste. Anne de Bellevue, about twenty-five miles from Montreal, is an incorporated College of the University, and houses the Faculty of Agriculture, the School of Household Science, and the Institute of Education.

McGill University is undenominational and has now for many years been co-educational in most of its faculties and schools. Admission is definitely selective, the number of students accepted into each faculty being limited. In the 1959-60 session the number of men students studying for either degrees or diplomas was 5,162 and the corresponding number of women students was 2,204. These students are drawn from every province of Canada and from many other countries, the connections with Great Britain, the West Indies, and the United States naturally being strong. At present there are in residence at the University about 125 students from Great Britain and 400 from the United States.

The following pages are intended to give in a condensed form the preliminary information that a student who contemplates entering the University would require, together with the entrance requirements of the various faculties and a list of the certificates accepted. Details of the Junior and Senior School Certificates, the entrance examinations conducted by the University, are given in the School Certificate Announcement. Separate announcements of the several faculties and schools are published and a list of these is printed on the inside of the title page. There is also a pamphlet enclosed with this announcement which gives the fees in the various faculties and schools, a description of the University residences for men and women, an account of the Health Service, and a calendar of dates. The Registrar's Office will be pleased to send one or more of these announcements to anyone interested or to answer inquiries.

GENERAL ANNOUNCEMENT

VETERANS' AFFAIRS

E. CLIFFORD KNOWLES, M.A., D.D.

Student Counsellor

ADVICE

Veterans who have any problems are recommended to consult Dr. E. C. Knowles, the Student Counsellor. Dr. Knowles has his office in Dawson Hall, the East Wing of the Arts Building.

Visits are made periodically to Macdonald College. For anything urgent, however, students may get in touch with Dr. Knowles through the Assistant Bursar at Macdonald College.

The Faculties and Schools of the University

A BRIEF OUTLINE WITH REFERENCES

Announcements of these faculties and schools giving further details may be obtained from the Registrar's Office.

For fees see the Pamphlet of General Information enclosed with this announcement.

I. MCGILL COLLEGE (FACULTY OF ARTS AND SCIENCE)

Including the School of Commerce

(See also page 421)

The undergraduate work of the University in Arts, in Pure Science, and in Commerce is done in McGill College, usually called the Faculty of Arts and Science. The Dean of McGill College is the Dean of the Faculty of Arts and Science. The following degrees are awarded in the Faculty:

Bachelor of Arts (B.A.)

Bachelor of Science (B.Sc.)

Bachelor of Commerce (B.Com.)

Bachelor of Education (B.Ed.)

Bachelor of Education (Physical Education) [B.Ed.(P.E.)]

In the case of the first three of these degrees, the Faculty offers both a General Degree and an Honours Degree.

The Library School and the School of Social Work are integral parts of the Faculty which, therefore, recommends to Senate candidates for the degrees of *Bachelor of Library Science* and *Master of Social Work*.

The work of students who are candidates for the degree of Bachelor of Commerce and for the degrees of Bachelor of Education and Bachelor of Education (P.E.) is supervised, under the Dean, by the Directors of the School of Commerce and of the Institute of Education, respectively. While the School and the Institute are integral parts of the Faculty, each has a separate Announcement.

Period of Resident Study in the Faculty: Four years from Junior Matriculation or three years from Senior Matriculation (see School Certificate Announcement). In the B.Ed. courses, the work of the first two years is taken at Macdonald College, at Ste. Anne de Bellevue, and the final two years are taken in Montreal.

GENERAL ANNOUNCEMENT

Minimum Entrance Requirements: Junior Matriculation for admission to the First year. Junior and Senior Matriculation with second-class standing for admission to the Second year. (See pages 422 to 425.) The entrance requirements for students from American schools and for students from Great Britain are stated on page 431.

Application Forms: For application forms apply to the Registrar's Office

For further particulars of this faculty, see pages 421 to 431.

II. FACULTY OF MEDICINE

Degrees offered: Doctor of Medicine and Master of Surgery (M.D., C.M.).

Diplomas offered: The Diploma of Tropical Medicine and Hygiene (D.T.M. and H.) and diplomas for advanced study in the various clinical departments of the faculty.

Period of Study in the Faculty for the Degree: Four years.

Licence to Practise: A year of internship, or a further year of study, is required before the University certifies that a graduate is entitled to take the qualifying examination of any of the licensing boards, so that the length of the full professional course is five years.

Entrance Qualifications: A limited number of students from high school to a combined course in Science and Medicine (see below). The normal requirement is a B.A. or a B.Sc. degree, but students with exceptionally high qualifications may apply for admission at the end of the Third year of their course. The pre-medical work must include:—

Physics: One year of general college Physics with laboratory work.

Biology: One year of general Biology or Zoology with laboratory work. (One year of Zoology will be accepted, but Botany alone is not sufficient.)

Chemistry: Two years.

(a) One full year's course of General Chemistry with laboratory work.

(b) One full year's course of Organic Chemistry with laboratory work.

All candidates for admission to the Medical Faculty are required to take the Medical College Admission Test, or furnish a satisfactory explanation of why they are unable to do so. This test should be taken in May of the Third year.

Students wishing to proceed towards medicine at McGill University are reminded that no specific "pre-medical" course is offered. Work preparatory to Medicine is taken while students are proceeding regularly towards the B.A. or the B.Sc. degree in the Faculty of Arts and Science. Students who are preparing for entrance to the Faculty of Medicine are advised that they should not choose subjects which properly belong to the medical course, but should devote their time to securing a thorough preparation in the fundamental scientific and humanistic subjects.

Students are strongly advised to make themselves familiar with the licensing regulations of the province or state in which they intend to practise and to take the necessary steps to become registered. The University requires Canadian students to register with the licensing body of their province before beginning their medical course.

Since the University can accept only a small percentage of those who apply, application should be made to the Secretary of the Faculty of Medicine as early as possible and in no case after January 1st.

Students are normally admitted to the four-year course in Medicine after a four-year college course and the attainment of a bachelor's degree. A special combined course, totalling seven rather than eight years, is offered to a limited number of selected students entering from high school. This leads to the award of both the B.Sc. and the M.D., C.M. degrees.

For further details apply to the Secretary of the Faculty. Application forms for admission into the Faculty of Arts and Science or for admission directly into the Faculty of Medicine may be obtained from the Registrar's Office.

III. FACULTY OF LAW

The course in the Faculty of Law provides a liberal education in legal principles and theory, and prepares students for the legal and notarial professions as well as for public service and business. In the field of private law, the curriculum is based on the Civil Law system and in particular on the Quebec Civil Code; in the field of public law, stress is laid on Constitutional, International, and Administrative Law, and on the new institutions and procedures resulting from the increased rôle of government in the modern state.

Degree offered: Bachelor of Civil Law (B.C.L.)

Period of Study for the degree: Three years.

Students proceeding to the legal and notarial professions are required to take an additional year of practical training and to pass further examinations.

Language Requirement: Students should be able to read French easily, and reasonable fluency in spoken French is recommended for those who intend to practise in the Courts of this Province.

Entrance Qualifications: To be qualified for admission to the Faculty a student must have obtained a B.A. degree from a Canadian university or a university or college of which the degree is recognized by McGill University as equivalent.

GENERAL ANNOUNCEMENT

In exceptional cases students who do not intend to practise either the legal or notarial profession may be admitted to the Faculty if they have successfully completed two years in the Faculty of Arts and Science at McGill University, or have attained an equivalent educational standard and are intellectually qualified to pursue with advantage the study of law.

In order to be admitted to the study of law by the Quebec Bar, candidates must hold the degree of B.A. from a Canadian university or a university or college of which the degree is recognized jointly by Laval, McGill, Montreal, Ottawa, and Sherbrooke universities and in addition by the Bar, and satisfy the Bar examiners that they have successfully completed "the regular course in Philosophy" in an approved university. In order to be admitted to the legal profession they must be Canadian citizens.

Candidates for admission to the notarial profession must be Canadian citizens and hold the degree of B.A. from a Canadian or English university or a University or College the degree of which is recognized as the equivalent by Laval, McGill, and Montreal Universities. They are required to have studied Latin and Philosophy.

Further information regarding admission to the Bar may be obtained by applying to Mr. Charles Coderre, Q.C., 170 Dorchester St. E., Montreal, or by consulting the Bar Act of the Province of Quebec. Information regarding admission to the Notarial profession can be obtained by applying to Mr. Arthur Courtois, Room 320, New Court House, Montreal, or by consulting the Notarial Code, 1941 R.S.Q., chap. 263 (as amended).

Application forms for admission may be obtained from the Secretary of the Faculty.

IV. FACULTY OF ENGINEERING

Degrees offered: (1) Bachelor of Engineering (B.Eng.), in the Departments of Chemical, Civil, Electrical, Mechanical, Metallurgical, and Mining Engineering, and in Engineering Physics; (2) Bachelor of Architecture. (*See School of Architecture, below.*)

Period of Study for the Degree: Five years from Junior Matriculation.

Entrance Qualifications: — For admission to the First year, Junior Matriculation as for B.Sc. (see page 422). For admission to the Second year, full B.Sc. Junior Matriculation, and Senior Matriculation in English, Mathematics (Algebra, Trigonometry, and Coordinate Geometry), Physics, Chemistry, and one of Biology, French, Geography, German, History, Latin, or Spanish. The regulations are given in full in the School Certificate Examinations Announcement and in the Announcement of the Faculty of Engineering.

Students should not contemplate entering the Faculty of Engineering unless they have more than average mathematical ability. The minimum requirements in this subject are stated in the School Certificate Announcement. For further details see the Announcement of the Faculty of Engineering.

V. SCHOOL OF ARCHITECTURE (IN THE FACULTY OF ENGINEERING)

Degree offered: Bachelor of Architecture (B.Arch.).

Period of Study for the Degree: Six years from Junior Matriculation.

The entrance requirements in Architecture are the same as those for the Engineering courses (*see above*). The length of the course is six years, the first year being identical with the first year in Engineering.

For further details, see the Announcement of the Faculty of Engineering.

VI. FACULTY OF DENTISTRY

Degree offered: Doctor of Dental Surgery (D.D.S.).

Period of Study in the Faculty for the Degree: Four years.

The minimum requirement for admission to the dental course is the satisfactory completion of two full years of study in a recognized College or Faculty of Arts and Science (or the equivalent thereof), including courses in the following subjects: English and Mathematics, one year of each; Physics, one year with laboratory work; Biology, one year of General Biology or Zoology with laboratory work (half year of Botany and half year of Zoology will be accepted, but not one year of Botany alone); Chemistry, two full courses, including one full course of Organic Chemistry with laboratory work.

Graduation with the degree does not carry with it the right to practise. Each Province and State has differing licensing requirements.

To be qualified to practise in the Province of Quebec, a student must have taken at least two years of the B.A. or B.Sc. course in an English university of Canada recognized by McGill University. The student should also register with the College of Dental Surgeons of the Province of Quebec as soon as he is admitted to the First Year of the Faculty of Dentistry.

VII. FACULTY OF AGRICULTURE

This faculty is housed in Macdonald College at Ste. Anne de Bellevue, twenty-five miles from Montreal.

Degree offered: Bachelor of Science in Agriculture [B.Sc. (Agr.)].

Diploma offered: Diploma in Agriculture.

Period of Study in the Faculty for the Degree: Four years.

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For entrance qualifications, fees, and further details, see the Announcement of Macdonald College, which may be obtained from the Registrar, Macdonald College, P.Q.

VIII. FACULTY OF MUSIC

Degree offered: Bachelor of Music (Mus.B.).

Diplomas offered: Licentiate in Music (L. Mus.).
Associate in Music (A. Mus.).

Minimum period of study in the Faculty for the Degree: Four years.

For further details see the Announcement of the Faculty of Music.

IX. FACULTY OF DIVINITY

Degree offered: Bachelor of Divinity (B.D.).

Period of Study for the Degree: Three years.

Entrance Qualifications: A Bachelor's degree (preferably B.A.) from a recognized University.

The Faculty provides courses designed to ensure a sound theological education. The associated Colleges of the Anglican and United Churches co-operate with the Faculty to provide vocational training for those students who are ordinands of their respective ministries, but entrance is not restricted to ordinands of those Churches or of any Church. Women students and students not seeking ordination are eligible for admission to the Faculty.

For details, see the Announcement of the Faculty of Divinity.

X. FACULTY OF GRADUATE STUDIES AND RESEARCH

Degrees offered: Master of Arts (M.A.), Master of Science (M.Sc.), Master of Engineering (M.Eng.), Master of Architecture (M.Arch.), Master of Sacred Theology (S.T.M.), Master of Civil Law (M.C.L.), Master of Science (Applied) [M.Sc.(Appl.)], Master of Library Science (M.L.S.), Master of Laws (LL.M.), Doctor of Philosophy (Ph.D.).

For details consult the Announcement of the Faculty of Graduate Studies and Research.

XI. SCHOOL OF HOUSEHOLD SCIENCE

(IN THE FACULTY OF AGRICULTURE)

(Women Only)

Degree offered: Bachelor of Science in Home Economics [B.Sc. (H.Ec.)].

Period of Study for the Degree: Four years.

For entrance requirements and other details see the Announcement of Macdonald College which may be obtained from the Registrar, Macdonald College, P.Q.

XII. LIBRARY SCHOOL (IN THE FACULTY OF ARTS AND SCIENCE)

Degree offered: Bachelor of Library Science (B.L.S.).

Period of Study: One year.

Entrance Qualifications: Bachelor's degree.

For details see the Announcement of the Library School.

XIII. SCHOOL FOR GRADUATE NURSES

(IN THE FACULTY OF MEDICINE)

DIPLOMA COURSES

One-year programmes in:

1. Teaching and Supervision in Schools of Nursing with specialization in Teaching of the Basic Sciences, Medical-Surgical Nursing, Psychiatric Nursing, and Maternal and Child Health Nursing. (Students may elect to do the major part of their work in either Pediatric Nursing or Obstetric Nursing.)
2. Public Health Nursing.

Entrance Qualifications: Junior Matriculation or its equivalent, and graduation from an approved school of nursing.

Satisfactory professional experience is a prerequisite.

DEGREE COURSES

Bachelor of Nursing

Two-year programmes leading to the degree of Bachelor of Nursing (B.N.), with study in two main areas:

1. Advanced Nursing Education (with opportunity to continue study in the special field selected in First year) *or* Administration in Hospitals and Schools of Nursing.
2. Administration and Supervision in Public Health Nursing.

Entrance Qualifications: Senior Matriculation or its equivalent, and graduation from an approved school of nursing.

Satisfactory professional experience is a prerequisite.

Bachelor of Science in Nursing

This programme prepares high-school graduates for professional nursing in all clinical fields including public health. The programme combines general education with the knowledge and skills essential to the practice of nursing. The course is five years in length for students entering with McGill Junior Matriculation and four years for those entering with McGill Senior Matriculation, provided they have met the requirements of the first year of the programme.

Entrance Qualifications: McGill Junior Matriculation, or its equivalent, with a general average for all papers of at least 65 per cent.

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XIV. SCHOOL OF SOCIAL WORK

(IN THE FACULTY OF ARTS AND SCIENCE)

A two-year graduate course leading to the degree of Master of Social Work (M.S.W.).

Entrance Qualifications: A Bachelor's degree from a university or college of recognized standing. Applicants should have completed their undergraduate course with superior standing. This should provide a broad liberal education and should include a substantial core in the social sciences, particularly sociology, psychology, economics, and political science. The social science core would usually involve at least one introductory course in each of the above with some more advanced courses in one of them. A course with statistics is required.

For details see the separate Announcement of the School of Social Work.

XV. SCHOOL OF PHYSICAL AND OCCUPATIONAL THERAPY

(IN THE FACULTY OF MEDICINE)

(Women Only)

Period of Study: Three years in the School leading to the Diploma of Physical or of Occupational Therapy. Five years in the School leading to a degree in Physical and Occupational Therapy [B.Sc.(P.&O.T.)].

Entrance Qualifications: Junior Matriculation or its equivalent.

For further particulars see the separate Announcement of the School of Physical and Occupational Therapy.

XVI. FRENCH SUMMER SCHOOL

(IN THE FACULTY OF ARTS AND SCIENCE)

A residential summer school with an entirely French staff, offering undergraduate and graduate courses.

Dates: 28th June to 10th August.

Inclusive Fee (tuition, room, and board): \$330.

For special Announcement apply to the Director, French Summer School, Arts Building, McGill University.

XVII. GEOGRAPHY SUMMER SCHOOL

(IN THE FACULTY OF ARTS AND SCIENCE)

A residential six weeks' summer school held at Stanstead, Que., and offering undergraduate and graduate courses.

Not given in 1960.

For special Announcement, apply to the Director, Geography Summer School, McGill University, Montreal.

XVIII. INSTITUTE OF EDUCATION

(IN THE FACULTY OF ARTS AND SCIENCE)

The School for Teachers and the School of Physical Education are part of this Institute.

Degrees offered: Bachelor of Education, and
Bachelor of Education (P.E.)
Master of Arts (Education)

Diplomas offered: Diploma in Physical Education, and First, Second, Third and Kindergarten Diplomas (issued by the Central Board of Examiners, Quebec).

Period of Study: Degree courses—four years (two years at Macdonald College and two years at McGill University).

Diploma in Physical Education—two years
Other Diplomas—one and two years

For further details, see the Announcement of the Institute of Education.

APPLICATION FOR ADMISSION TO ALL FACULTIES

Application forms for all years in the Faculties of Arts and Science, and Engineering, and for the First year in Medicine, Dentistry, and Divinity may be obtained from the Registrar's Office. Application for admission to other faculties or years should in the first instance be made by letter to the Registrar.

All letters of inquiry should indicate the degree or diploma in which the candidate is interested, so that specific advice can be given regarding entrance requirements.

ADMISSION FROM OTHER UNIVERSITIES

A student of another university applying for advanced standing or for exemption from any subject or subjects which he has already studied must submit with his application a certified copy of his academic record, and may in addition be required to submit a Calendar or Bulletin of the University in which he has previously studied. He should also arrange to have sent separately to the University a confidential report from an officer of instruction or administration who is familiar with his work.

RESIDENTIAL ACCOMMODATION

The University maintains a number of residences which are described in the General Information Pamphlet enclosed with this Announcement. Space is limited, however, and the University does not undertake to provide living accommodation for all *men* students. Application for, and admission into, an academic course are entirely separate from application

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for, and admission into, a University residence. Residential application forms can be obtained from the individual residence or from the Registrar's Office.

SCHOLARSHIPS AND BURSARIES

Details of the University Entrance Scholarships and of other scholarships, bursaries, and loan funds are given in the Scholarships Announcement which may be obtained from the Registrar's Office.

PHYSICAL EDUCATION REQUIREMENT

All students in the First year of the Faculty of Arts and Science, the Faculty of Engineering and in the degree courses in Music and the School of Physical and Occupational Therapy are required to take and complete a programme in Physical Education.

FOREIGN STUDENTS

McGill University welcomes properly-qualified foreign students provided they have an adequate knowledge of written and spoken English. Their qualifications are normally judged upon the results of their academic record in the country they come from and there are no special entrance examinations for them. It must be emphasized that all lectures, seminars, etc., in the University are conducted in English, and that many students in the past have failed in their academic studies because of inadequate proficiency in the English language.

The Faculty of Arts and Science

*For further particulars see page 411 and also the separate
Announcement of the Faculty.*

The undergraduate work of the University in the Humanities, and in Social Sciences (B.A.), in the Physical and Biological Sciences (B.Sc.), and in Commerce (B.Com.) is done in McGill College, usually called the Faculty of Arts and Science. Complete details of these courses are given in the separate Announcements of the Faculty of Arts and Science and the School of Commerce, but the information on page 411 and the following notes will, it is hoped, answer most of the inquiries a student entering the First or Second year of the Faculty would wish to make before actually coming to the University.

Correspondence should in the first instance be sent to the University Registrar.

WOMEN STUDENTS

Women are admitted to the courses and to the degrees of the Faculty on the same terms as men.

Women students whose homes are outside Montreal must make application for residence before May 31st to the Warden of the Royal Victoria College. At the same time, they must submit their academic applications. Forms for these purposes are obtainable from the College or from the Registrar's Office. (*See also pages 307 to 310 of the General Information Pamphlet enclosed with this Announcement.*)

AGE OF ADMISSION

Except in special circumstances, no student under the age of sixteen is admitted to the First year, or under the age of seventeen to the Second year.

ENTRANCE REQUIREMENTS

These requirements are for 1960 only. Students expecting to apply for admission in 1961 should write to the Registrar for additional information which will be available by September 1st, 1960.

Eligibility to enter the University through Junior or Senior Matriculation is determined fundamentally by reference to the standards maintained by the McGill School Certificate Examinations. These examinations are described in detail in the School Certificate Examinations Announcement, but the names of the required papers are given below. The pass mark is in all cases 50%. Certain other public examinations also recognized for admission to the University are listed on pages 430 and 431. A student with incomplete qualifications cannot be admitted as a regular undergraduate.

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ENTRANCE THROUGH MCGILL SCHOOL CERTIFICATE EXAMINATIONS

1. ENTRANCE TO THE FIRST YEAR (*Junior Matriculation*)

To qualify for admission to the first year of the Faculty of Arts and Science a candidate must pass within a period of sixteen months in each of the ten McGill School Certificate papers listed below, or their recognized equivalents.

If a candidate has failed in a paper or if his average falls below the required value, he may ask for reconsideration of his application on the basis of re-written papers, but the final mark will be counted in all cases.

(a) *For admission to the First year of the B.A. course* a candidate must pass in each of the following papers in the University's Junior School Certificate and obtain an average of at least 65% on the examination as a whole.

No. of Papers	Subject
2	English
1	General History
2	Latin <i>or</i> Greek
2	French; Latin; Greek; German; <i>or</i> Spanish; (a language not already chosen)
2	Elementary Algebra <i>and</i> Elementary Geometry
1	One of the following: Biology; Botany; Chemistry; Drawing; Geography; British or Canadian History; Physics; Music; Intermediate Algebra; Trigonometry; <i>or</i> a foreign language not already chosen (the average of the two papers in a foreign language is counted).
—	
10 papers	

A candidate who has not taken Latin or Greek in the entrance examination may be admitted if he has the full B.Sc. qualifications with an average mark of at least 70%. If he is admitted he will be required to include two years of Latin or Greek in his B.A. programme.

(b) *For admission to the First year of the B.Sc. course* a candidate must pass the following papers in the University's Junior School Certificate Examination and normally obtain at least 70% upon the examination as a whole. Special consideration may, however, be given to B.Sc. candidates who have secured an average of 65% to 70% and have shown special distinction in such scientific subjects as they have taken in their matriculation, i.e., Mathematics, Chemistry, Physics, Biology, or Botany.

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No. of Papers	Subject
2	English
1	General History
2	French <i>or</i> German (both papers)
1	Elementary Algebra
1	Elementary Geometry
1	One of the following: Biology; Botany; Chemistry; Physics
2	<i>Either</i> Latin <i>or</i> Spanish <i>or</i> French <i>or</i> German (if not already chosen), <i>or</i> any two of the following papers not already chosen:
	(a) Intermediate Algebra
	(b) Trigonometry
	(c) Biology <i>or</i> Botany (Biology <i>and</i> Botany may not both be chosen)
	(d) Chemistry
	(e) Geography
	(f) Physics
	(g) British <i>or</i> Canadian History
	(h) Music <i>or</i> Drawing (Music <i>and</i> Drawing may not both be chosen)
10 papers	

(c) *For admission to the First year of the B.Com. course* a candidate must have satisfied *either* the requirements for entrance to the B.A. *or* the requirements for entrance to the B.Sc. course.

(d) *For admission to the First year of the B.Ed. or B.Ed. (P.E.) course* a candidate must fulfil the requirements for admission to the first year of the B.A. *or* the B.Sc. course. Students applying for admission by means of the Quebec High School Leaving examinations may offer Agriculture, Household Science, or North American Literature as optional papers.

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2. ENTRANCE TO THE SECOND YEAR (Senior Matriculation)

A candidate may be considered for admission to the Second year of the Faculty of Arts and Science if he has passed in the appropriate ten papers of the McGill Junior School Certificate Examination, or their recognized equivalents, and if he has passed within a period of sixteen months in the papers of the McGill Senior School Certificate Examination, or their recognized equivalents, with an average of at least 70% on the examination as a whole. Special consideration may, however, be given to candidates who have received an average of 65% to 70% if they have obtained high standing in all such subjects as they have taken in the examination which are appropriate to the degree course which they wish to enter. These are: *in Arts*—English, Languages, History; *in Science*—Mathematics, Physics, Chemistry, Biological Science; *in Commerce*—English, History, Mathematics.

The same provisions regarding re-written papers apply to Senior Matriculation as apply to Junior Matriculation (see page 422).

Only in exceptional circumstances may a student who has not qualified for entrance to the First year through Junior Matriculation be admitted to the Second Year by Senior Matriculation alone.

- (a) *For admission to the Second year of the B.A. course —*
English
Latin or Greek
Mathematics (see footnotes ¹ and ²)

¹Two papers: one in Algebra and one in Trigonometry. Candidates who have passed in School Certificate Trigonometry may write Co-ordinate Geometry instead of Senior Trigonometry. The paper in Co-ordinate Geometry, written in addition to the other two, if necessary, is strongly recommended for candidates who intend to study for Honours in Mathematics, Physics, or Chemistry.

²All B.A. candidates are advised to offer Mathematics as one of the Senior Matriculation subjects. If, however, a student intends to follow an Honours course in one of the Humanities, or in Political Science, or in History, he may in certain circumstances be permitted to offer another subject in which he has shown marked proficiency in place of Mathematics. The regulations governing the matter are quite specific, and any student who contemplates making the substitution should, *before he commences his Senior Matriculation year*, consult the School Certificate Examinations Announcement or the Announcement of the Faculty of Arts and Science to make sure that he is eligible.

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Any two of the following:—

1. History
2. Latin *or* Greek (the one not already chosen)
3. French
4. German
5. Spanish
6. Science (Physics *or* Chemistry *or* Biology)
7. Music
8. Geography

Candidates who intend to apply for entrance to the Faculty of Medicine at the end of the Third year of the B.A. course must take Mathematics.

(b) *For admission to the Second year of the B.Sc. course —*

English
Mathematics¹
Physics
Chemistry
French *or* German² *or* Spanish *or* Latin *or*
Greek *or* History *or* Biology *or* Geography

(c) *For admission to the Second year of the B.Com. course —*

English
Mathematics¹
Accountancy³
A modern foreign language
History, *or* a second foreign language, *or* a Science (including
Geography)

¹For B.Sc. and B.Com.—two papers, one in Algebra and one in Trigonometry. Candidates who have passed in School Certificate Trigonometry may write Co-ordinate Geometry instead of Senior Trigonometry.

The paper in Co-ordinate Geometry, written in addition to the other two, if necessary, is strongly recommended for candidates who intend to study for Honours in Mathematics, Physics, or Chemistry.

²A candidate who has passed the two papers in Junior French may obtain Senior B.Sc. or B.Eng. standing in German by passing the Junior examinations in this subject.

³Applications of students who have substituted another subject for Accountancy may be considered if their standing is high enough.

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FURTHER INFORMATION

Full details of the above examinations are given in the School Certificate Examinations Announcement.

APPLICATION FOR ADMISSION

It is advantageous for out-of town candidates to make preliminary application, on the proper forms, as early in the year as possible, supplementing this later with the required certificates, transcripts, etc., as these become available.

Applicants should note that clear photo-copies of original documents are acceptable if submitted in duplicate. Sending such copies avoids the risk of losing the originals in the mails.

The Admissions Committee also requires a confidential report from the Principal of the applicant's school. This may if desired be made on a form obtainable from the Registrar.

Students whose native language is not English must satisfy the Assistant Dean that their command of written and spoken English is adequate.

The number of students admitted is limited, and the Faculty is not bound to accept all applicants who have passed the required examinations.

CLASSES OF STUDENT IN THE FACULTY

(1) *Regular Undergraduates*: Students with complete matriculation qualifications taking the regular work of their year towards a degree.

(2) *Limited Undergraduates*: Students with complete matriculation qualifications who have been given the permission of the Dean of the Faculty to distribute the four years' work over five or more years (but not more than eight years), on the understanding that the sequence of courses conforms to the regular undergraduate rules and time table.

Limited Undergraduates are not eligible for scholarships, bursaries, or prizes of any description and may not read for an honours degree.

(3) *Partial Students*: Students not registered as proceeding to a degree who are allowed to take one or more lecture courses. Partial students must obtain the Dean's permission to register and must satisfy the lecturer in the course concerned that they have sufficient ability to do the work in such a course. Applications may be refused if limitation of space in lecture rooms and laboratories requires it. A student who has tried and failed to matriculate is not allowed to register as a partial student except in special circumstances.

If a partial student hopes to secure credit for a course, he or she must fulfil all the requirements of classroom work and tests which are prescribed for that course for regular students.

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A partial student who has successfully passed the courses of a previous year is not necessarily accepted at a later session.

Subject to the above limitations, lectures are open to partial students in both honours and general classes. Such a student may request the Registrar to issue a certificate stating that he has followed certain courses and showing his class standing in each. Work taken by a partial student cannot, however, be counted towards a McGill degree without a special vote of Faculty.

Partial students are not eligible for scholarships, bursaries, medals, or prizes.

PERIOD OF STUDY

The regular length of the course for a B.A., B.Sc., or B.Com. degree is four years from Junior Matriculation, or three years from Senior Matriculation. Students from other universities are sometimes admitted to the upper years, but the bachelor's degree is never conferred upon a student who has spent less than two years in the Faculty.

REGISTRATION

First year students register on Thursday, September 15th, in the Sir Arthur Currie Gymnasium-Armoury. Science and Commerce students register from 9.00 a.m. to 12.00 noon; Arts Students from 1.30 to 4.00 p.m.

Upper year students in Arts, Science, and Commerce whose names begin with the letters A to L and all Third and Fourth year B.Ed. students register on Tuesday, September 20th from 9.00 a.m. to 4.00 p.m.

Upper year students in Arts, Science, and Commerce whose names begin with the letters M to Z and all partial students register on Wednesday, September 21st from 9.00 a.m. to 4.00 p.m.

After the above official days of registration a special late registration fee must be paid (see General Information pamphlet).

No student is admitted after October 1st except by special permission of the Dean.

Special regulations for the registration of women students are given in the General Information pamphlet.

ADVISERS

Students may consult the Dean, any of the Group Chairmen, or the Assistant Dean, at any time. Women students may also consult the Warden of the Royal Victoria College.

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FIRST YEAR PROGRAMME

The academic programme of a student in the First year of the Faculty is generally similar to the Senior Matriculation subjects (*See pages 424 and 425*) required for direct admission to the Second year, but a greater number of optional subjects is provided within the University. An exception is the compulsory course in Economic History in the First year of Commerce, for there is no course equivalent to this in Senior Matriculation.

ADVANCED COURSES IN THE FIRST YEAR

The Departments giving instruction in the First year offer special lectures or work of a more advanced character to students with adequate qualifications. These advanced courses are generally arranged by the Departments when lectures actually commence.

Students in the First year who have the necessary qualifications may be permitted by the Dean to take one or more Second year courses.

GENERAL DEGREES AND HONOURS DEGREES

An undergraduate in the Faculty of Arts and Science may proceed to a General Degree, involving the study of a fairly wide range of subjects with a limited amount of specialization, or to an Honours Degree which, after the Second year, necessitates almost complete specialization in either one or two subjects. For details see the Announcement of the Faculty of Arts and Science.

The word "Honours" is used in the Faculty of Arts and Science in the above sense only. Students who have shown marked ability while proceeding to a General Degree may be awarded Distinction or Great Distinction upon graduating, but do not obtain Honours.

COURSES

Study for degrees in the Faculty is conducted by the following Departments:

- | | |
|---------------------------------|---|
| Anatomy | (a) Economics and Political Science |
| (s) Bacteriology and Immunology | Education |
| (s) Biochemistry | (a) English (including some work in Theatre Arts) |
| (s) Botany | Fine Arts |
| (s) Chemistry | (s) Genetics |
| (a) Classics (Latin and Greek) | |

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(a,s) Geography	(s) Physiology
(s) Geological Sciences	(a,s) Psychology
(a) German and Russian	Religion
(a) History	Romance Languages
(a,s) Mathematics	[French(a); Spanish,
Music	Italian]
(a) Philosophy	(a) Sociology and
(s) Physics	Anthropology
	(s) Zoology

Certain interdepartmental courses are offered as well

Departments offering Honours courses for the B.A. degree are marked (a); those offering Honours courses for the B.Sc. degree are marked (s).

Students proceeding to the B.Com. degree also take courses in

Accounting	Commercial Law
Business Organization and Industrial Management	Marketing

B. Com. students who undertake sufficiently specialized work in Economics or Political Science (Public Administration) may obtain an Honours degree in one or other of these subjects.

ATTENDANCE

Students in the First and Second years are required to attend at least seven-eighths of the total number of lectures and of the total number of laboratory periods in each course.

EXAMINATION MARKS

The pass mark in all examinations is 50 per cent, and the minimum marks for first and second class standing are 80 per cent and 65 per cent respectively.

THE TWO TERMS

The regular session is divided into two terms, the first starting about the end of September and the second starting in early January. In the first term, however, lectures in the compulsory courses of the First year begin a week earlier. (For Calendar, see the General Information Pamphlet.) Students commencing a year in the Faculty are normally permitted to enter only at the beginning of the Fall term.

ADMISSION TO THE SECOND AND THIRD YEARS

Applications for entrance to the Second and Third years of the Faculty should be made to the Registrar's Office on the proper forms, and must

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be accompanied by complete details of previous school and university work. (*See also pages 419, 424.*)

To obtain a bachelor's degree a student must spend at least two years in McGill College.

CONCERNING STUDENTS WHO INTEND TO PROCEED INTO THE PROFESSIONAL FACULTIES

Each undergraduate in the Faculty is required to register for one of the bachelor's degrees offered (see page 411), and, unless otherwise instructed by the Dean, must follow the regular work of his year toward this degree.

Students intending to transfer into one of the professional faculties before graduating in Arts and Science should make themselves familiar with the entrance requirements of the faculty they seek to enter and should see that the courses they choose conform with these requirements.

For details concerning the granting of the B.A. or B.Sc. degree to students who transfer into the Faculty of Medicine or the Faculty of Dentistry at the end of the Third year, see the Announcement of the Faculty of Arts and Science.

SCHOLARSHIPS AND BURSARIES

A separate announcement giving details of scholarships and bursaries may be obtained from the Registrar's Office.

EXAMINATIONS RECOGNIZED FOR ADMISSION TO THE UNIVERSITY

McGill University recognizes a number of public examinations as conferring, in certain circumstances, the equivalent of Junior or Senior Matriculation standing for admission to the Faculty of Arts and Science, the Faculty of Engineering, and other faculties and schools.

The Admissions Committees of the various faculties require generally that:

- (1) The certificate has been obtained under no easier conditions than those of McGill Matriculation.
- (2) The subjects of the examination and the school course followed are those the University requires.
- (3) The school records and confidential reports are satisfactory.

Candidates who wish to enter by certificate should in no circumstances come to the University without first having obtained an official acceptance of their application.

RECOGNIZED EXAMINATIONS

The following gives a brief outline of the certificates and examinations which will be considered on their merits towards meeting the University entrance requirements. For more extensive lists and further details see the **School Certificate Examinations Announcement**.

1. *For admission to the First year of the B.A., B.Sc., B.Com., B.Ed., B.Eng., B.Arch., B.Sc.(Agr.), B.Sc.(H.Ec.), B.Ed.(P.E.), B.Sc.(N.), and B.Sc.(P.&O.T.) courses:*

Canada

The recognized Junior Matriculation or equivalent examinations of the various provinces.

Great Britain

In the General Certificate of Education, passes in five suitable subjects excluding Religious Knowledge will be the normal standard for admission.

Intending students should confirm that the subjects they are offering are suitable for their proposed course of study.

United States

The tests of the College Entrance Examination Board. All candidates from the United States are advised to write these tests, preferably at the January or the March session. The Scholastic Aptitude tests and three Achievement tests, the latter chosen in consultation with the applicant's school Principal, should be taken. Further particulars are available from the Registrar's Office.

Miscellaneous

Other certificates such as those issued by universities or public examining boards will be judged on their merits and accepted if they meet all the University requirements.

2. *For admission to the Second year of the B.A., B.Sc., B.Com., B.Ed., B.Eng., B.Arch., B.Sc.(Agr.), B.Sc.(H.Ec.), B.Ed.(P.E.), and B.Sc.(P.&O.T.) courses, and to the graduate degree course in Nursing:*

Canada

The recognized Junior and Senior Matriculation or equivalent examinations of the various provinces.

Great Britain

In the General Certificate of Education, passes in five subjects at Ordinary level and two appropriate subjects at Advanced level.

United States

Completion of one year in an approved college with a suitable syllabus and good grades.

McGill University



Montreal

School Certificate Examinations

June and August 1961

PUBLICATIONS

The following official publications are issued by the University and may be obtained from the Registrar's Office.

Announcements of Faculties and Schools as follows:

General Announcement

School Certificate Examinations

Scholarships, Bursaries, and Loan Funds

Faculty of Arts and Science (Degrees in Liberal Arts and in Pure Science. There is a separate Announcement for the School of Commerce.)

Faculty of Medicine

Faculty of Medicine Postgraduate Courses

Faculty of Dentistry

Faculty of Engineering (Degrees in Engineering and in Architecture.)

Faculty of Law

Faculty of Music

Faculty of Divinity

Faculty of Graduate Studies and Research

School of Commerce

Library School

Institute of Education

School for Graduate Nurses

School of Physical and Occupational Therapy

School of Social Work

Macdonald College (Faculty of Agriculture, and School of Household Science.)

French Summer School

Extension Courses

The Directory of Staff (University administrative officers, standing committees, and officers of instruction. Limited distribution.)

The Calendar (available for distribution only to libraries and officials of certain institutions.)

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The School Certificate

The Junior School Certificate examination is intended as a test for pupils who are completing their secondary school education.

The requirements for the certificate are given below, and also the requirements for admission to various courses at McGill University. It must be emphasized that these are not the same thing. To matriculate, i.e. to enter the University, a candidate must write and pass all the papers required by the faculty he wishes to enter and obtain the average mark the faculty has set. Thus, to enter the Faculty of Arts and Science an applicant must write ten papers (see page 511), although he may obtain the Junior School Certificate by writing eight papers only.

The Senior School Certificate examination is intended as a corresponding test for pupils who have done one year of academic work beyond that required for the Junior School Certificate.

The standard of the senior papers is approximately that of the First Year examinations in the Faculty of Arts and Science, but the certificate does not automatically confer the right to enter the Second Year of any university course.

For the conditions under which these certificates will admit into the various faculties of the University, see pages 511 to 514 and pages 533 to 535.

School Certificate Examinations

GENERAL REGULATIONS

JUNE AND AUGUST EXAMINATIONS

The School Certificate examinations are held in June and August—in June at McGill University and also at local centres; in August at McGill University only. The time-tables for these examinations are issued in February each year.

All inquiries relating to the examinations should be addressed to the Registrar of the University.

APPLICATION FORMS

Every candidate for examination is required to fill in an application form and return it to the Registrar's Office with the necessary fee before the 1st of May* or the 1st of August, for the June or August examinations respectively. Applications may be accepted for the Montreal centre only until May 15th or August 15th. A special late fee of \$1.00 is charged for such applications.

FEES

Junior Examination. The Junior Examination fee is \$3.00 per paper with a maximum fee of twenty dollars.

Senior Examination. The Senior Examination fee is \$3.00 per paper with a maximum fee of twenty dollars.

REGULATIONS CONCERNING FEES

In centres outside Montreal candidates may be required to pay the whole or part of the expenses of invigilation.

A fee of \$1.00 is charged for late applications (*see above*).

*Candidates wishing to take the examinations in Oral French (*see pages 520 and 543*) at a centre outside Montreal must notify the Registrar in writing before the *first of April* in addition to making application on the usual forms. The University will then decide whether this examination can be held at the requested centres.

GENERAL REGULATIONS

No refunds are paid to candidates after the last day of registration (1st May or 1st August), excepting only when a candidate is absent throughout the whole examination on account of illness, and a medical certificate to this effect is presented within four weeks of the close of the examination.

Fees paid for one examination cannot be credited towards a subsequent examination.

CERTIFICATES

The examinations may be taken in parts but the University will issue a School Certificate only on the results of examinations written within a period of sixteen months.

School Certificates are issued only to candidates who have passed the complete University School Certificate Examination.

TEXTBOOKS

JUNIOR SCHOOL CERTIFICATE

The University does not recommend or refer to specific textbooks in the syllabi of its Junior School Certificate Examinations, except in Mathematics. Set "texts", however, form an essential part of the language papers.

SENIOR SCHOOL CERTIFICATE

The University has also discontinued the recommendation of some of the Senior School Certificate textbooks, but in some subjects it is considered desirable that the work should follow closely that of the corresponding course in the first year of the Faculty of Arts and Science, and in such subjects the textbooks used in the University courses have been retained as Senior School Certificate textbooks for the present.

CONSULTATION WITH DEPARTMENTS

The University Departments concerned will be pleased to give school principals or specialist teachers advice concerning methods or books of reference, and to discuss problems that may arise in connection with the syllabi for either the Junior or the Senior School Certificate Examinations. The Assistant Registrar will be glad to arrange such conferences.

SCHOOL CERTIFICATE EXAMINATIONS

PREVIOUS PAPERS

Books containing the examination papers set in either June or August of any one year may be obtained from the University Bookstore, at 25 cents a copy, so long as quantities last.

PUBLICATION OF RESULTS

Each candidate will receive a statement of his results as soon as they are ready. The certificates are sent to successful candidates a little later.

A list of the successful candidates is published in the Press. This list gives the class of the certificates obtained and any distinctions gained, but does not give any relative order of merit within the three classes.

The actual marks in each paper are sent to each candidate and are given on the back of the certificate but are not otherwise published.

Junior School Certificate

REQUIREMENTS FOR THE CERTIFICATE

To obtain a School Certificate a candidate must complete the requirements within a period of sixteen months. This allows four attempts in the June and August examinations of two successive years.

For first and second-class certificates two attempts only are allowed
For details, see page 510

The pass mark in each paper is fifty per cent. To obtain the certificate a candidate must write eight papers chosen according to the regulations that follow and must *either* pass in every paper *or* obtain an average of at least sixty per cent in the eight papers with no individual mark below forty per cent.

COMPULSORY PAPERS

English Literature

English Composition

*French Written paper

OPTIONAL PAPERS

Five papers on optional subjects must be chosen from not less than two of the three groups below:

GROUP I

Algebra
Geometry
Chemistry
Physics
Botany
Biology
Intermediate Algebra
Trigonometry
Higher Arithmetic

GROUP II

French Oral examination
German (two papers)
Spanish (two papers)
Latin (two papers)
Greek (two papers)

*The University may, in special circumstances, permit candidates to substitute another modern language for French.

SCHOOL CERTIFICATE EXAMINATIONS

GROUP III

General History
British History *or* Canadian History
Geography
Art
Music

A candidate may write more than eight papers—in fact ten are required for entrance to the University (see page 511)—but the certificate is awarded on the eight papers only. If a successful candidate writes more than eight papers, the class of the certificate he receives is reckoned on the subjects in which he has the highest marks. If such a candidate offers a subject, such as Latin, which has two papers, the marks in both these papers must either count towards the certificate or be neglected, i.e., a candidate cannot count towards his certificate the better of two Latin marks and the better of two German marks.

FIRST, SECOND, AND THIRD CLASS CERTIFICATES

Successful candidates are awarded a School Certificate of the first, second, or third class.

To obtain a first or second class certificate a candidate must complete the examination in not more than two attempts within a period of sixteen months and may write a part of the examination at each attempt. The marks obtained in his first attempt will always be counted towards a third class certificate, but will not be counted towards a first or second class certificate if he fails in more than one paper. To obtain a first or second class certificate such a student must rewrite the whole examination, and the certificate will be awarded solely on the marks obtained at the second attempt.

An average of 80% or over in all the papers required for the certificate entitles a candidate who has complied with the previous regulation to a first class certificate.

An average of 70% or over obtained under the same conditions, entitles a candidate to a second class certificate. Other successful candidates receive a third class certificate.

DISTINCTIONS

Candidates who obtain 80% or over in any subject are given distinction in this subject. Distinction is not given in *single* papers of Mathematics or the languages (including English).

JUNIOR MATRICULATION REQUIREMENTS

ENTRANCE REQUIREMENTS OF FACULTIES ADMITTING STUDENTS ON THE BASIS OF THESE EXAMINATIONS (JUNIOR MATRICULATION)

These requirements are for 1960 only. Students expecting to apply for admission in 1961 should write to the Registrar for additional information which will be available by September 1st, 1960.

FACULTY OF ARTS AND SCIENCE

To qualify for admission to the First year of the Faculty of Arts and Science a candidate must pass (i.e. obtain 50%) within a period of sixteen months in each of the ten McGill School Certificate papers listed below, or their recognized equivalents. For entrance to the B.A. course an average mark of at least 65% must be obtained in ten papers including two in Latin or in Greek. If neither Latin nor Greek is included the average required is 70%.

For entrance to the First year of the B.Sc. course, the candidate must normally obtain an average of at least 70%. Special consideration may, however, be given to B.Sc. candidates who have secured an average of 65% to 70% and have shown distinction in subjects related to the course they wish to enter.

To enter the B.Com. course, a candidate must have the qualifications listed above for either the B.A. or the B.Sc. course.

Entrance qualifications for the B.Ed. and B.Ed.(P.E.) courses are shown on page 513.

ADMISSION TO THE FIRST YEAR OF COURSES LEADING TO THE B.A. DEGREE

In the University's own examination ten papers are required.

No. of Papers	Subject
2	English
1	General History
2	Latin <i>or</i> Greek *
2	Written and Oral French <i>or</i> two papers in Greek <i>or</i> Latin (the one not already chosen), <i>or</i> German, <i>or</i> Spanish.
2	{ Elementary Algebra Elementary Geometry

*A candidate who has not taken Latin or Greek in the entrance examination may be admitted if he has the full B.Sc. qualifications with an average mark of at least 70%. If he is admitted he will be required to include two years of Latin or Greek in his B.A. programme.

SCHOOL CERTIFICATE EXAMINATIONS

- 1 One of the following:
Biology; Botany; Chemistry; Art; Geography; Physics,
Music; Intermediate Algebra; Trigonometry; Canadian History
or British History; a foreign language not already chosen (the
average of the two foreign language papers is counted). (Students
from the Province of Quebec may offer North American
Literature as an optional paper.)

—
10 papers

2. ADMISSION TO THE FIRST YEAR OF COURSES LEADING TO THE B.Sc. DEGREE

In the University's own examination ten papers are required.

No. of Papers	Subject
2	English
1	General History
2	Written <i>and</i> Oral French <i>or</i> two papers in German
2	{ Elementary Algebra Elementary Geometry
1	One of the following: Biology; Botany; Chemistry; Physics
2	<i>Either</i> Latin <i>or</i> Spanish <i>or</i> French <i>or</i> German (if not already chosen) <i>or</i> any two of the following papers not already chosen: (a) Intermediate Algebra (b) Trigonometry (c) Biology <i>or</i> Botany (Biology and Botany may not both be chosen) (d) Chemistry (e) Geography (f) Physics (g) British History <i>or</i> Canadian History (h) Music <i>or</i> Art (Music and Art may not both be chosen) (i) North American Literature (Quebec High School Leaving)

—
10 papers

3. ADMISSION TO THE FIRST YEAR OF COURSES LEADING TO THE B.Com. DEGREE

*For admission to the First year of the B.Com. course a candidate must
have satisfied either the requirements for entrance to the B.A. or the
requirements for entrance to the B.Sc. course.*

JUNIOR MATRICULATION REQUIREMENTS

4. ADMISSION TO THE COURSES LEADING TO THE B.Ed. DEGREE

For admission to the First year of the B.Ed. course a candidate must fulfil the requirements for admission to the first year of the B.A. or the B.Sc. course. Students applying for admission by means of the Quebec High School Leaving examinations may offer Agriculture, Household Science, or North American Literature as optional papers.

Candidates for admission are also required to meet the Admissions Committee of the School for Teachers before their applications are approved.

5. ADMISSION TO THE COURSES LEADING TO THE B.Ed.(P.E.) DEGREE

For admission to the First year of the B.Ed.(P.E.) course a candidate must fulfil the requirements for admission to the first year of the B.A. or the B.Sc. course. Students applying for admission by means of the Quebec High School Leaving examinations may offer Agriculture, Household Science, or North American Literature as optional papers.

FACULTY OF ENGINEERING

ADMISSION TO THE FIRST YEAR OF COURSES LEADING TO

THE B.Eng. AND B.Arch. DEGREES

The subjects and standing required for admission into the First year of the Faculty of Engineering are the same as those required for the first year of the B.Sc. courses (see page 512).

FACULTY OF AGRICULTURE

1. ADMISSION TO THE FIRST YEAR OF COURSES LEADING TO THE B.Sc. (Agr.) DEGREE

In the University's own examination ten papers are required.

No. of Papers	Subject
2	English
1	History
2	Latin <i>or</i> French <i>or</i> German <i>or</i> Spanish (French preferred)
2	{ Elementary Algebra Elementary Geometry
1	Physics <i>or</i> Chemistry <i>or</i> Biology
2	EITHER Latin <i>or</i> French <i>or</i> German <i>or</i> Spanish (if not already chosen); OR Any two of the following papers not already chosen: (a) Intermediate Algebra

SCHOOL CERTIFICATE EXAMINATIONS

- (b) Trigonometry
- (c) *Botany *or* *Biology
- (d) Chemistry
- (e) Physics
- (f) Art
- (g) Geography
- (h) British *or* Canadian History
- (i) Music (Household Science candidates only. Music and Art may not both be chosen.)
- (j) North American Literature (Quebec High School Leaving)

—
10 papers

2. ADMISSION TO THE FIRST YEAR OF COURSES LEADING TO THE B.Sc. (H.Ec.) DEGREE

The requirements are those of the B.Sc. (Agr.) courses printed above, with the modifications noted.

PRESCRIPTION OF WORK IN EACH SUBJECT

For the examinations in June and August 1961

In all papers marks will be deducted for errors in spelling and grammar.

ART

No examination paper.

Students applying for School Certificate standing in Art will present a portfolio of not more than twelve original works selected, with the aid and certification of the art teacher or the School Principal, to illustrate the applicant's achievements along any number of the following general lines:

1. Ability to record observation of objects or scenes, in terms of either quick sketch or protracted study, in monochrome or colour.
2. Competence in design or composition in any of the following forms: pictures, posters, illustrations, formal decorations.
3. Sensitivity to the intrinsic possibilities and limitations of whatever medium is employed, no value being attached to the number of media attempted.
4. Ability in imaginative conception and convincingness of its projection.

—
*Botany and Biology may not both be chosen.

5. Powers of interpretation . . . sensitivity in expressing, rather than merely reproducing, a given subject or theme, whether imaginative or actual, objective or non-objective.

Portfolios must be in the Registrar's Office, Dawson Hall, McGill University, not later than Thursday, 18th May, 1961, and may be reclaimed approximately one month thereafter.

BIOLOGY

One examination paper.

All the subjects mentioned should be studied practically, both in the field and in the classroom. Vivaria and aquaria should be kept and plants should be grown in soil and water culture. Pupils should be encouraged to collect material and so add to the school museum. Typical preparations and demonstration dissections should be made. In small classes pupils might do some dissection personally. Simple experiments should be used wherever possible. The use of a hand lens is essential for every pupil and a microscope should be available.

I. *Plants*: *Algae*: one unicellular type, and either Spirogyra or Ulothrix. *Fungi*: Bacteria, Yeast, Bread mould, Wheat rust, a Mushroom. *Lichens*: general study only. *Bryophyta*: Marchantia or any one Moss. *Pteridophyta*: a Fern. *Gymnosperms*: a Conifer. *Angiosperms*: one herbaceous monocotyledon, one herbaceous dicotyledon, one dicotyledonous tree.

The following points should be considered in studying the above: adaptation to environment, structure, life-history, physiology, seasonal changes.

II. *Animals*: *Protozoa*: Amoeba, Paramoecium, Plasmodium. *Coelenterata*: Hydra. *Platyhelminthes*: Tape worm. *Annelida*: Earthworm. *Arthropoda*: Crayfish or Grasshopper. *Pisces*: Perch or any other fish. *Amphibia*: Frog. *Reptilia and Aves*: the external characters of any one reptile and any one bird. *Mammal*: Rabbit or Rat.

The following points should be considered in studying the above: adaptation to environment, structure, physiology (including locomotion, nutrition, circulation, respiration, secretion, excretion, nerve control, action of hormones, growth), reproduction, seasonal changes.

III. *General*: The general structure of a plant cell and of an animal cell as seen in Spirogyra and Amoeba. Euglena as illustrating both plant and animal characters. The properties of living matter. The differences between animals and plants.

SCHOOL CERTIFICATE EXAMINATIONS

Elementary outlines of the principles of heredity and variation among plants and animals.

Simple evidence of the theory of evolution.

IV. *Field Natural History*: Trees and animals of the neighbourhood. Relation of plants and animals to their physical environment and to one another in *one* type of community, such as woodland, pasture, cultivated land, swamp, or an aquatic community. The dominant plants and animals of this community

V. A general study of the interrelations of plants and animals with man, and of the importance of plants and animals as sources of food, shelter, clothing, and commercial products, with special reference to the types studied in sections I and II.

Suggested topics:

Plants: Green plants as basic food supply. Plant geography and plant industries of North America in relation to climate. Organic decay and the carbon and nitrogen cycles. Control of pathogenic bacteria and fungi.

Animals: Protozoan and other parasites as causal agents of disease. Insects, useful and injurious, in relation to human health, farm stock, crops, and forests. The place of birds in nature. Food animals. Fur-bearing animals in relation to climate.

BOTANY

One examination paper.

All the subjects mentioned should be studied practically. Aquaria should be kept, plants grown in soil and water culture, and simple physiological experiments carried out. The use of a hand lens is essential for every pupil and a microscope should be available.

The items of the syllabus may be studied in any suitable order.

I. *Organs and Cells*

The general external characters and structure of a flowering plant considered in relation to its mode of life.

Structure of a plant cell; properties of protoplasm; types of cell.

II. *Types and Classification*

The general structure, life history, relation to environment, and broad classification of the following types:

Thallophyta: Algae—Oscillatoria, Protococcus, Spirogyra, Oedogonium. Fucus, or Laminaria.

Fungi—Bacteria, Yeast, Mould, Mushroom, other Fungi, including at least one parasitic form.

Lichens—general.

Bryophyta: A Liverwort, a Moss.

Pteridophyta: A Fern, Equisetum, Selaginella.

Spermatophyta: Gymnosperms—one Conifer type and general characters of other local species.

Angiosperms—a Monocotyledon; Dicotyledons—herbaceous and tree types. General structure of flower, fruit, and seed. Comparison with homologous structures of preceding types.

Leading characters of the groups listed above. Trends in the evolution of a many celled body and of sexual reproduction as illustrated by the algal types, and of alternation of generations and adaptation to land life as displayed by the higher forms.

General characteristics and common plants of the following families of flowering plants: Liliaceae, Gramineae, Orchidaceae, Ranunculaceae, Rosaceae, Leguminosae, Umbelliferae, Solanaceae, Labiatae, Compositae

III. *Physiology and Histology*

Elements of the microscopic structure of a typical leaf, root, herbaceous stem, and woody stem studied in relation to the functions of the organ and its parts.

Essentials of nutrition (photosynthesis, mineral nutrition, storage of foods, special modes of feeding), respiration, water relations, growth, tropisms, and reproduction. The organism as a whole. Seasonal changes in perennial herbs and trees.

IV. *Field Natural History*

Common trees and some other plants of the neighbourhood. Elements of the ecology of at least one local area, such as wood, meadow, swamp, or seashore. Adaptation to environment. Modes of pollination and of distribution and germination of seeds.

V. *Heredity*

Elementary outline of the principles of heredity and variation as applied to plants.

VI. *Relation to Man*

Green plants as the basic food supply. Man's staple food plants. Nature and source of other important plant products, e.g., lumber, fibres, paper, rubber. Useful bacteria and fungi; organic decay, carbon and nitrogen

SCHOOL CERTIFICATE EXAMINATIONS

cycle. Pathogenic bacteria and fungi and their control. Main types of vegetation found in North America, with emphasis on Canada; their relation to climate and to human activities.

CHEMISTRY

One examination paper.

The proficiency in Chemistry will be examined on evidence of an elementary knowledge of:

The properties of matter as required to establish the Molecular Theory of Gases, the Atomic Theory, The Theory of Atomic and Molecular Structure, the Theory of Ionization, and the Periodic Law.

The composition, physical properties, and chemical transformations of common materials such as the atmosphere, natural waters, acids, bases, salts, common minerals and ores, metals and alloys, and fuels.

The preparation and properties of the more common non-metallic elements: Hydrogen, Nitrogen, Oxygen, Carbon, Sulphur, and Chlorine together with their simple compounds of economic importance.

The preparation and properties of the more common metallic elements: Sodium, Calcium, Magnesium, Aluminium, Iron, together with their simple compounds of economic importance.

The nature of chemical reaction including: the factors affecting the rate, point of equilibrium, and completion of a chemical reaction; exothermic and endothermic reactions; the principle of mass action; the nature of oxidation and reduction as illustrated by combustion and the recovery of metals.

The solution of simple problems involving: the calculation of percentage composition from molecular formula; the calculation of empirical formula from percentage composition; the Gas Laws including the calculation of gram molecular weight; and/or volume relationships in chemical reactions.

Suggested texts: Croal, Couke, and Loudon, Chemistry for Secondary Schools (Copp Clark); Guest, Elementary Chemistry (Pitman).

ENGLISH

Two examination papers: one in Composition, and one in Literature.

COMPOSITION

No special readings are required for the Composition paper. It is intended to be a test of the student's ability to write clear and correct English and to give him an opportunity of demonstrating his powers of composition. Candidates will be asked to write on a wide choice of general

subjects and the paper will include at least one question in which the student is addressing a particular audience. There may also be questions on errors of grammar, spelling, etc.

LITERATURE

For critical study:

1. Poets:

1961 Byron, Shelley, Keats, Tennyson, as in Cunliffe and Cameron *Poems of the Romantic Revival* (Copp-Clark).

1962 Coleridge, Wordsworth and Browning as in Cunliffe and Cameron *Poems of the Romantic Revival* (Copp-Clark).

Arnold—*The Forsaken Merman, Shakespeare, Memorial Verses, Self Dependence, The Future, Philomela, To Marguerite* ("yes, in the sea of life enisled"), *Dover Beach, Obermann Once More, Rugby Chapel.*

2. Shakespeare:

1961 *Henry IV Part I* or *The Tempest*

1962 *Romeo and Juliet* or *Macbeth*

1963 *Julius Caesar* or *Hamlet*

For general reading:

3. Novels:

1961 A novel of Trollope or a novel of Hawthorne
and

W. H. Hudson, *Green Mansions* or Stephen Crane, *The Red Badge of Courage*

1962 A novel of Charlotte Brontë or a novel of Robert Louis Stevenson
and

Conrad, *Lord Jim* or Wilder, *The Bridge of San Luis Rey*

1963 A novel of Scott or a novel of Hardy
and

Conrad, *Victory* or Maugham, *Of Human Bondage*

4. Drama:

1961 Shakespeare, *As You Like It* or a play of Galsworthy

1962 Shakespeare, *Twelfth Night* or a play of Goldsmith

1963 Shakespeare, *Henry V* or a play of Shaw

5. Essays:

At least *two* essays from any *five* of the following: Bacon, Addison, Steele, Goldsmith, Lamb, Hazlett, Hunt, Stevenson

Suggested Anthologies:

Peacock, *Selected English Essays* (Oxford)

Williams, *A Book of English Essays* (Pelican)

SCHOOL CERTIFICATE EXAMINATIONS

6. Twentieth Century Literature:

A novel or play or biography or selection of short stories, poems, plays, essays—written and published since the year 1900.

FRENCH—One written paper and one oral examination.

WRITTEN PAPER

This will consist of four parts, each carrying 25 marks.

A. *French Essay*

A short essay in French (100-150 words) on a topic of general interest selected by the candidate from a list printed on the examination paper.

B. *French Unseen*

Translation into French of a short English passage (approx. 100 words) which may be a narrative, a conversation, or a description.

C. *French Grammar*

Translation into French of approximately a dozen short English sentences, each illustrating a point of grammar.

D. *French Texts*

Four or five questions in French to be answered in French at some length on a text appointed for the year.

Text for 1961—Maupassant, *Eight Short Stories* (Ed. White-Heath).

Text for 1962—*Ten Favourite French Stories* (Ed. J. S. Galland—Appleton-Century-Crofts, N.Y.)

ORAL EXAMINATION

The examinations will be held at different centres on dates selected by the Matriculation Board between 1 May and 15th May. The Board cannot guarantee to provide oral examinations for candidates who do not register before the 1st of April.

The oral examination will consist of three tests.

A. *Oral Comprehension Test (20%)*

The examiner will read out twice to a group of candidates a French passage of not more than 120 words; then he will ask four or five questions in French on that passage. Candidates will be required to answer these questions *in writing* and *in English* on the spot.

B. *Pronunciation Test (20%)*

Each candidate will be required to read aloud a passage of not more than 200 words selected by the examiner from any of the books the candidate has read for the examination.

C. Fluency Test (60%)

A conversation between candidate and examiner in the course of which students will have to answer questions on the contents of *two* prepared texts selected from the following:

1. 1961 only. Dumas: *Le Collier de la Reine* (Bovée et Guinard) (The Macmillan Co., New York)
- 1962 Dumas: *La Tulipe Noire* (Ed. Fontaine—Heath).
2. Hugo: *Les Misérables* (Super) (Heath)
3. Daudet: *Tartarin de Tarascon* (Hawkins) (Heath)
4. Labiche: *La poudre aux yeux* (Dale) (Heath)
5. Fite: Four contemporary one act plays (Heath)
6. Mérimée: *Colomba* (Robert Humphreys) (Heath)
7. Pagnol: *Topaze* (Heath)
8. Simenon: *Le client le plus obstiné du monde* (McIntosh)
9. Eve Curie: *Madame Curie* (Ernst and Schwartz) (Odyssey Press, N.Y.)
10. Fauchois: *Prenez garde à la peinture* (Heath)

GEOGRAPHY

One examination paper.

Geography is taken to be primarily the study of the earth as the home of differentiated communities and cultures; this calls for a clear understanding of the ways in which men have shaped the habitable parts of the environment to their own ends and have themselves been influenced in the process. It also calls for an examination of the functional role of land forms, rivers, climates, vegetation, etc., in guiding human activities.

It is assumed that candidates will know how to handle topographic, climatic, and distributional maps, and that they will be able to draw simple sketch maps (e.g. of their home area). They may be asked to insert data on a base map of a given country or continent, and to describe and analyze the geographical features of ground and air photographs.

A. General Geography (one third of the course)

A study of the world in outline, with special reference to the following subjects:

- Size, shape, and movements of the earth.
- Latitude and longitude and time zones.
- Distribution of land and water.
- Tidal phenomena and ocean currents.

SCHOOL CERTIFICATE EXAMINATIONS

Land forms and the agencies modifying them.

Configuration and surface characteristics of the continents.

Factors determining climates: the broad distribution of winds, temperature, rainfall, vegetation, soils and animal life.

Major natural regions and their characteristic human economies.

B. Regional Geography (one third of the course)

Canada and the United States in considerable detail. Emphasis should be placed on the geographical factors influencing their settlement and subsequent economic development.

C. Maps and Aerial Photographs (one third of the course)

The elements of map-making, map-reading and air photo interpretation. Candidates are expected to show familiarity with the topographical maps produced by The Topographic Survey of the Department of Mines and Technical Surveys, Ottawa.

Suggested Texts and Atlases: *At Home on Our Earth—The United States and the British Commonwealth*, G. Whipple and P. E. James (Macmillan Co.); *The Geography of Canada*, J. L. Robinson (Longmans, Green & Co.); *Earth Science—The World We Live In*, S. N. Namowitz and D. B. Stone (Van Nostrand Co.); *Canadian Social Studies Atlas* (Dent & Sons); *Goode's School Atlas* (Rand McNally).

GERMAN

Two examination papers: one on prescribed texts, and one on grammar and translation of continuous passages from German into English and from English into German.

B.A.

Texts (Translation and grammatical study):

Peter Fabrizius, *Wer zuletzt lacht . . .* (Appleton-Century-Crofts, Inc., New York) and

Hagboldt: *Anekdoten und Erzählungen* (Heath: Chicago German Series No. 3)

Grammar: A thorough knowledge of German accidence and syntax.

Suggested text: Curts, *Basic German* 3rd edition (Prentice Hall N.Y.)

Translation at Sight from English into German and German into English of easy prose passages.

B.Sc.

Texts (Translation and grammatical study):

Fiedler and Sandbach, *A first German Course for Science Students* (Oxford University Press) and

Hagboldt: *Anekdoten und Erzählungen* (Heath, Chicago German Series No. 3).

Grammar: A knowledge of German accidence and syntax.

Suggested text: Curts, *Basic German*, 3rd edition (Prentice Hall, N.Y.)

Translation at Sight of sentences from English to German and of easy prose passages from German into English.

GREEK

Two examination papers: one on Colson and Grammar; the other on Allen and Composition.

Texts: Colson, *Greek Reader*, Parts III, IV, V (Macmillan); Allen, *The First Year of Greek*, Lessons 1-34 inclusive, with the Exercises belonging to these lessons (Macmillan).

Grammar: Knowledge of grammar will be tested by translation and by grammatical questions based on the specified texts.

HISTORY

One examination paper is offered in each of the three following fields:

(a) *General History from 1600-1939*

(b) *British History from 1714-1939*

(c) *The History of Canada with related topics in the History of the United States from the age of discovery until 1939.*

A Guide to Reading containing references and suggestions for teachers and students who are preparing for these History papers may be obtained from the Registrar's Office.

These lists are intended as a bibliographical aid for teachers who may concentrate on certain topics in which they are especially interested or which they think particularly desirable for their students.

The examination paper will give a wide choice of questions and will be so divided that a candidate may not pass by concentrating on one particular aspect of the work.

As the General History paper is primarily a test of knowledge of European History, questions dealing with such things as the Far East, Africa, England, will only be included if they impinge on European History.

The paper in Canadian History will give a wide choice of questions and will give the candidate an opportunity to relate his knowledge of Geography to that of History.

SCHOOL CERTIFICATE EXAMINATIONS

LATIN

Two examination papers: one on Latin Prose selections and Composition, and the other Latin Poetry selections, sight translation, and the textbook "Everyday Life in Rome".

Textbooks:

Booney and Niddrie, *Latin Prose and Poetry* (Ginn)

Treble and King, *Everyday Life in Rome* (Oxford)

The following selections in "*Latin Prose and Poetry*" are set for 1961:

Vergil, Part 1: 4 - 9; Part 2: Georgics 2, 5; Aeneid 3, 4

Horace 4,5,8,9

Catullus 2,7

Cicero 1,6 and Letters 3,5

Nepos 7,8,9

Livy 5,9,10,11,12

Pliny 11,12

Ovid 1,5,9

and the following for 1962 and succeeding years:

Gellius 2

Caesar 1,3

Nepos 1,2

Cicero 4 and Letter 8

Livy 1,2,4

Pliny 1,13

Phaedrus 1,4,9,10

Vergil Part 1: 1,2,3,12,13,14; Part 2: Georgics 3,4 and Aeneid 2

Catullus 1,5

Horace 1,2

Ovid 6,8

The Composition Examination will consist of the translation into Latin of detached sentences. These will require a knowledge of those constructions only that are covered in Bonney and Niddrie, *Latin Prose Composition*. However, it is not necessary for schools to use this publication as their textbook. The vocabulary will be taken largely from the selection set in "*Latin Prose and Poetry*".

Knowledge of grammar and syntax will be tested by questions on the selections read in "*Latin Prose and Poetry*", as well as by composition.

NOTE—The "Roman" method of pronouncing Latin is recommended.

MATHEMATICS

ELEMENTARY MATHEMATICS

HIGHER ARITHMETIC

One examination paper.

1. Addition, subtraction, multiplication, and division of integers. Factors, highest common factor, and least common multiple.

2. Properties of vulgar fractions including addition, subtraction, multiplication, and division. **Complex fractions.**
3. Properties of decimals including the conversion of vulgar fractions into decimals and vice versa. Extraction of square root. Contracted multiplication and division of decimals.
4. Simple properties of ratio and proportion. The unitary method.
5. Simple properties of percentages, e.g., changing a fraction to a percent and vice versa, finding what per cent one number is of another.
6. Units of measurement and changing from one unit to another. A knowledge of the standard tables of weights and measures will be expected, e.g., length, area, volume, capacity (liquid and dry), apothecaries (fluid and weight), avoirdupois and troy weight, time, English and Canadian monetary systems. **The metric system.**
7. Simple mensuration of the rectangle, triangle, parallelogram, trapezoid, circle, cylinder, cone, and pyramid.
8. The construction and interpretation of simple graphic and other representative diagrams of concrete numbers.

Candidates will be expected to apply the preceding principles to the solution of simple problems such as the making of solutions and preparation of dosages, the relation between pressure and temperature of a gas, the comparison between Fahrenheit and Centigrade thermometer scales, etc.

Students should be taught to apply rough approximations, such as

$$\frac{3.1416 \times \sqrt{64.37}}{\sqrt[3]{126}} \approx \frac{3 \times 8}{5} = 5$$

to check the accuracy of their work, and they should also be shown how to use tables of squares, square roots, cubes, and cube roots of integers and decimals. A knowledge of circulating decimals will not be required.

High School Arithmetic by A. T. Batstone, E. T. Alexander, J. A. Chown, published by The Ryerson Press, Toronto, will be found useful.

ELEMENTARY ALGEBRA

One examination paper.

Elementary rules, involution, evolution, fractions, indices, surds, simple and quadratic equations involving one or more unknown quantities, simple graphs, ratio and proportion, as in High School Algebra by J. T. Crawford (Revised Edition, 1940) published by Macmillan and Co., pp. 1-320, or Intermediate Algebra for College Students by Thurman S. Peterson (Revised Edition), published by Harper and Brothers, New York, pp. 1-279, (omitting page 207 and pp. 261-267) or similar text-books.

SCHOOL CERTIFICATE EXAMINATIONS

ELEMENTARY GEOMETRY

One examination paper.

The paper will contain questions on practical and on theoretical geometry.

In practical geometry, where the validity of a construction is not obvious, the reasoning by which it is justified may be required. Every candidate must provide himself with a ruler graduated in inches and tenths of an inch, and in centimeters and millimeters, a set square, a protractor, compasses, and a hard pencil. All figures should be drawn accurately.

The questions on theoretical geometry will consist of theorems contained in the textbook prescribed, together with questions upon these theorems, easy deductions from them, and arithmetical illustrations. Any proof of a proposition will be accepted if it forms part of a systematic treatment of the subject.

In the proof of theorems and deductions from them, the use of hypothetical constructions will be permitted. Proofs which are only applicable to commensurable magnitudes will be accepted.

Textbook recommended:—Geometry for High Schools by W. J. Loughheed and J. G. Workman, published by the Macmillan Co. of Canada (1941), omitting pp. 223-224, 242, 308-314, 323-329, or the same subject matter in Plane Geometry (Revised Canadian Edition) by H. S. Hall and F. H. Stevens, published by the Macmillan Company of Canada, or similar text-books.

INTERMEDIATE MATHEMATICS

Four-figure mathematical tables will be provided.

INTERMEDIATE ALGEBRA

One examination paper.

Arithmetic, geometric, and harmonic progressions, variation, permutations and combinations, binomial theorem, logarithms, number system, theory of quadratic equations, as in Intermediate Algebra by H. Tate, published by Sir Isaac Pitman and Son, Toronto, or as in similar textbooks.

INTERMEDIATE TRIGONOMETRY

One examination paper.

Measurement of angles, radian measure, trigonometrical ratios of functions of one angle, of two angles, and of a multiple angle, relations between the sides and angles of a triangle, easy problems on heights and distances, easy trigonometrical equations, as in Elementary Trigonometry by H. S. Hall and S. R. Knight, adapted for use in Canadian Schools

(1940 edition), published by the Macmillan Company of Canada, Chaps. I to XI inclusive, omitting paragraph 113a, or as in similar textbooks.

MUSIC

The Grade 9 Certificate of McGill University in practical subjects and the Grade 9 Certificate in theoretical. (Details will be found in the Announcement of the Conservatorium of Music.)

PHYSICS

One examination paper.

The following are the main topics required in Mechanics, Heat, Electricity, and Magnetism.

Mechanics

Measurements of length, area, volume, mass, and weight. The beam and spring balances.

Uniform and uniformly accelerated motion in a straight line; Newton's laws of motion and simple applications of them. Motion under gravity; the law of gravitation. Moments of forces; composition of parallel forces, equilibrium of forces (parallelogram and triangle laws); centre of gravity, Work, energy, power. Sliding friction. Mechanical advantage of a machine; levers, pulleys, wheel and axle, differential pulley and differential wheel and axle, inclined plane, wedge, screw; efficiency of a machine. Density and specific gravity. Fluid pressure, Pascal's law; hydraulic press. Relation between pressure and depth. Buoyancy; Archimedes Principle; floating bodies. Measurement of specific gravity of solids and liquids; specific gravity bottle, hydrometer.

Weight and pressure of air; barometers, determination of altitude, weather forecasting, Boyle's Law. Air pumps and compressors. Pressure gauge. Suction and force pumps, siphon.

Surface tension and capillarity (qualitative treatment)

Heat

Elementary ideas of the structure of matter and kinetic theory of gases. Sources of heat. Temperature; construction of a liquid in glass thermometer, fixed points, graduation; Centigrade and Fahrenheit scales. Expansion of solids, coefficient of linear expansion; expansion of liquids, anomalous expansion of water. Expansion of gases, Charles' Law, absolute temperature; the gas equation.

SCHOOL CERTIFICATE EXAMINATIONS

Heat quantity and its measurement in calories and B.T.U., specific heat, capacity for heat; calorimetry by method of mixtures. Change of state; fusion and solidification; effect of pressure on melting point; heat of fusion; freezing mixtures; vaporization, rate of evaporation, saturated vapour, boiling, effect of pressure change (including altitude); heat of vaporization of water; cooling by evaporation. Condensation of water in the air; dew point; relative humidity, wet and dry bulb hygrometer, humidity and health; atmospheric phenomena—fog, clouds, dew, frost, rain, snow, hail.

Mechanical equivalent of heat; steam engine.

Conduction of heat, solids, liquids, and gases; convection currents in fluids, winds; radiant heat, emission and absorption; heating of buildings, ventilation; refrigeration.

Magnetism

Natural and manufactured magnets; polarity, attraction and repulsion. Magnetic induction, magnetic field. Molecular theory of magnetism. The earth as a magnet; compass, declination, dip.

Static Electricity

Electrification by friction, attraction and repulsion, two kinds of electrification; conductors and insulators; electrons; gold leaf electroscope. Electrification by contact and by induction; testing charge on a body; induced charge equal to inducing charge; charges by friction equal and opposite; charges reside on outside of empty hollow conductor. Action of points, lightning rods. Potential, capacity, condensers, Leyden jars.

Current Electricity

Magnetization of steel by discharge of Leyden jars.

Voltaic cell, electric circuit, series and parallel arrangements. The magnetic, chemical, and thermal effects of a current; Oersted's experiment, magnetic field due to a straight wire, circular wire, and helix; polarity. Action of one current on another, Ampère's Laws, tangent and moving coil galvanometers. Electromagnet. Electric bell and telegraph. Electrolysis of water, laws of electrolysis, coulomb, measurement of current; electroplating. Voltaic cell, chemical action, electromotive force, polarization, local action. Leclanché and dry cells. Storage cells, lead accumulator. Heat developed by current; electric iron, fuses, incandescent lamp and arc light. Ohm's Law; practical units, ampere, volt, ohm; fall of potential in circuit, method of substitution for measuring resistance.

Law of dependence of resistance on length and cross-section of cylinder. Work done in a circuit, rate of working in circuit and in lamp. Ammeters and voltmeters

Electromagnetic induction; Faraday's experiments. Induction coil. Dynamo, armature, field magnets, commutator for D.C. electric motor, transformer, telephone.

SPANISH

Two examination papers.

One paper will contain questions on grammar, and sentences to be translated from English into Spanish.

The second paper will contain questions on the set text, including translation and comments on the grammar and contents. It will also contain the translation into English of an unseen Spanish passage, and the translation into Spanish of an unseen English passage.

Text prescribed—Crow and Crow, *Panorama de las Américas* (Holt).

EXAMINATIONS RECOGNIZED FOR ADMISSION TO THE UNIVERSITY

McGill University recognizes a number of public examinations as conferring, in certain circumstances, the equivalent of Junior or Senior Matriculation standing for admission to the Faculty of Arts and Science, or the Faculty of Engineering, or other faculties and schools.

Admission to the various faculties is based upon standards set from time to time by each faculty. The Admissions Committees require generally that:

- (1) The certificate has been obtained under no easier conditions than those of McGill Matriculation,
- (2) The subjects of the examination and the school course followed are those the University requires,
- (3) The school records and confidential reports are satisfactory.

Candidates who wish to enter by certificate should in no circumstances come to the University without having obtained an official acceptance of their application.

The following certificates will be considered *on their merits* towards meeting the University requirements for the equivalent of Junior Matriculation. *It should be particularly noted that possession of a certificate which is listed does not guarantee acceptance.*

Candidates for admission offering certificates which are not a full equivalent may be required to pass one or more McGill papers.

PROVINCE OF QUEBEC

The High School Leaving Certificate

The Catholic High School Leaving Certificate

PROVINCE OF ONTARIO

Ontario Secondary School Graduation Diploma with four options

PROVINCE OF NEW BRUNSWICK

Junior Matriculation

PROVINCE OF NOVA SCOTIA

Grade XI Certificate

PROVINCE OF PRINCE EDWARD ISLAND

Second Year Certificate of Prince of Wales College

PROVINCE OF BRITISH COLUMBIA

Junior Matriculation

CERTIFICATES RECOGNIZED FOR JUNIOR MATRICULATION

PROVINCE OF MANITOBA Grade XI Certificate

PROVINCES OF ALBERTA AND SASKATCHEWAN Grade XI

NEWFOUNDLAND Grade XI Certificate

GREAT BRITAIN

In the General Certificate of Education, passes at the ordinary level in five suitable subjects (other than Religious Knowledge) will be the normal standard for admission. The various faculties specify which subjects must have been passed and intending applicants should confirm that the subjects they offer are suitable.

UNITED STATES

1. McGill University recognizes the examinations conducted by the College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey. All candidates from the United States must write these tests.
2. Applicants for admission should preferably write the January or the March tests, taking the Scholastic Aptitude Test and three Achievement Tests. The Achievement Tests should be chosen in consultation with the applicant's school Principal. Further particulars are obtainable from the Registrar's Office.
3. In addition, applicants must submit their complete High School record and should arrange for a confidential letter from the school Principal or other competent officer to be mailed directly to the University.

MISCELLANEOUS

Other certificates, such as those issued by universities or recognized public Examining Boards, will be judged on their merits and accepted insofar as they meet the entrance requirements.

Senior School Certificate

REQUIREMENTS FOR THE CERTIFICATE

To obtain the Senior School Certificate the candidate must pass in English Literature and English Composition and in at least three of the following subjects:

Accountancy	Greek
Art	History
Biology	Latin
Chemistry	Mathematics
French	Music
Geography	Spanish
German	Physics

To satisfy the examiners in a language the candidate must pass in each of the two papers in this language.

To satisfy the examiners in Mathematics the candidate must write and pass at least two of the three papers offered in this subject.

PASS MARK

The pass mark in each paper is fifty per cent.

CLASSES OF CERTIFICATE

Successful candidates are awarded a Senior School Certificate of the first, second, or third class.

To obtain a first or second class certificate a candidate must complete the examination in not more than two attempts within a period of sixteen months and may write a part of the examination at each attempt. The marks obtained in his first attempt will always be counted towards a third class certificate, but will not be counted towards a first or second class certificate if the candidate fails in more than one paper. To obtain a first or second class certificate such a student must rewrite the whole examination, and the certificate will be awarded solely on the marks obtained at the second attempt.

An average of 80% or over in all the papers required for the certificate entitles the candidate who has complied with the previous regulation to a first class certificate.

SENIOR SCHOOL CERTIFICATE

An average of 70% or over obtained under the same conditions, entitles a candidate to a second class certificate. Other successful candidates receive a third class certificate.

DISTINCTION

Candidates who obtain 80% or over in any subject are given distinction in this subject. Distinction is not given in *single* papers of Mathematics or the languages (including English).

UNIVERSITY ENTRANCE REQUIREMENTS (SENIOR MATRICULATION)

Under certain conditions, a candidate may qualify for admission into the Second year of the Faculty of Arts and Science or the Faculty of Engineering by writing and passing the required papers of the Senior School Certificate Examination.

FACULTY OF ARTS AND SCIENCE

A candidate may be considered for admission to the second year of the Faculty of Arts and Science if he has passed in the appropriate ten papers of the McGill Junior School Certificate Examination, or their recognized equivalents, and if he has passed within a period of sixteen months in the papers of the McGill Senior School Certificate Examination, or their recognized equivalents, with an average of at least 70% on the examination as a whole. Special consideration may, however, be given to candidates who have received an average of 65 to 70% if they have obtained high standing in all such subjects as they have taken in the examination which are appropriate to the degree course which they wish to enter. These are: *in Arts*—English, Languages, History; *in Science*—Mathematics, Physics, Chemistry, Biological Science; *in Commerce*—English, History, Mathematics.

Only in exceptional circumstances may a student who has not qualified for entrance to the first year through Junior Matriculation be admitted to the Second year by Senior Matriculation alone.

ADMISSION TO THE SECOND YEAR OF COURSES LEADING TO THE B.A. DEGREE

English

Latin or Greek

Mathematics (*see following paragraph and also footnote on page 534*)

SCHOOL CERTIFICATE EXAMINATIONS

Any two of the following:—

1. History
2. Latin *or* Greek (the one not already chosen)
3. French
4. German
5. Spanish
6. Science (Physics *or* Chemistry *or* Biology)
7. Music
8. Geography

Candidates for admission to the University in the Second year of the B.A. course may offer, in place of Mathematics, another Senior Matriculation subject in which they have shown marked proficiency and which is in accordance with the trend of the studies which they are preparing to pursue. In general, however, students are advised to offer Mathematics. It is a pre-requisite to all advanced courses in the Science division and must be taken if either Physics or Chemistry is included in the Senior Matriculation programme. It is also a required subject for students who intend to take courses in the Social Sciences, excluding History and Political Science. For this reason, unless a student intends to honour in one of the Humanities (English, Languages, Philosophy) or in Political Science or in History, Mathematics is obligatory. In any case, no student will be permitted to offer another subject in place of Mathematics unless he or she has passed in the Elementary Mathematics of the Junior School Certificate, or their equivalent, and has achieved at least 75% in the Junior School Certificate examinations in History, or a Modern Language, or Classics. Only a subject in which this 75% is obtained may be substituted for Mathematics. If they intend to pursue studies in History, Philosophy, or Political Science, candidates are expected to choose History as their substitute.

Candidates who wish to enter the Faculty of Medicine at the end of the B.A. course must take Mathematics.

ADMISSION TO THE SECOND YEAR OF COURSES LEADING TO THE B.Sc. DEGREE

English
Mathematics*

*Two papers: one in Algebra and one in Trigonometry. Candidates who have passed in School Certificate Trigonometry may write Co-ordinate Geometry instead of Senior Trigonometry. The paper in Co-ordinate Geometry, written in addition to the other two, if necessary, is strongly recommended for candidates who intend to study for Honours in Mathematics, Physics, or Chemistry.

SENIOR MATRICULATION

Physics

Chemistry

French *or* German* *or* Spanish *or* Latin *or* Greek *or* History
or Biology *or* Geography

ADMISSION TO THE SECOND YEAR OF COURSES LEADING TO THE B.Com. DEGREE

English

Mathematics**

Accountancy***

A modern foreign language

History *or* a second foreign language *or* a Science (including
Geography)

FACULTY OF ENGINEERING

ADMISSION TO THE SECOND YEAR OF COURSES LEADING TO THE B.Eng. AND B.Arch. DEGREES

English

Mathematics (all three papers are required)

Physics

Chemistry

French *or* German* *or* Spanish *or* Latin *or* Greek *or* History
or Biology *or* Geography.

*A candidate who has passed the two papers in Junior French may satisfy the Senior B.Sc. or B.Eng. German requirements by passing the Junior examination in German.

**Algebra and Trigonometry. However, a candidate who has passed in School Certificate Trigonometry may write Co-ordinate Geometry instead of Senior Trigonometry.

***Applications of students who have substituted another subject for Accountancy may be considered if their standing is high enough.

PRESCRIPTION OF WORK IN EACH SUBJECT

For the examinations in June and August 1961

In all papers marks will be deducted for errors in spelling and grammar

ACCOUNTANCY

One examination paper.

Double-entry Book-keeping, including all subsidiary books and ledgers, up to and including the use of Control, Total, or Balancing Accounts; closing off of ledgers; preparation of Trading and Profit and Loss Statements and Balance Sheets.

Books specially required:

Cash-Book suitable for an office where all cash and cheques received are banked daily, all payments above a certain amount are made by cheque, and all lesser payments through petty cash. Cashier to be able to show the balance in the bank at any time at very short notice.

Cash-Book suitable for an office where sums of cash are kept in the office, in addition to petty cash, and deposits in bank do not include whole of receipts. Cashier to be able to show balances of cash, etc., in office and in bank at any time, and at very short notice.

Departmental Sales and Purchases Journals for recording transactions in different classes of goods.

General Journal ruled so as to segregate items according to ledgers into which they are to be posted, in order that totals may be posted to control accounts.

Other matters specially required:

Bills and Notes Payable Registers.

Imprest System of Petty Cash.

Reserve for Bad Debts, Discounts, and Depreciation.

Inward and Outward Consignments.

Inward and Outward Freight on Merchandise purchased and sold.

Accrued Expenses and Deferred Charges.

Single Entry Book-keeping.

Use of Working Sheets.

Candidates may be required to define and explain such terms as the following:

Invoices; I.O.U.'s; promissory notes; bills of exchange and parties thereto; acceptances, endorsements, etc.; cheques; bills drawn in a set; bills of lading; capital and revenue receipts and expenditure; current and fixed assets; capitalization.

Marking is arranged so as to prevent any candidate obtaining a pass unless he has shown that he has a sound knowledge of what is outlined in the first paragraph. No candidate is passed who does not show that he understands Control Accounts and their uses. For this purpose subsidiary ledgers and their control accounts in the General Ledger must be shown in full; in addition, the books of original entry must be so ruled and organized that they will produce the required figures no matter how large may be the quantity of items dealt with.

ART

No examination paper.

Students applying for Senior School Certificate standing in Art must present a portfolio of original work. The portfolio must be accompanied by a statement signed by the student and another signed by the art teacher or the school principal, certifying that the work contained in the portfolio is original work of the student not corrected by any other hand.

The portfolio should be sent to the Registrar's Office before May 15th and should contain:

A. Ten studies from life, of which at least five must be of the nude human figure. The remainder may be of the nude model, of the draped human model, or of animals. At least five of the above studies must be in charcoal, the remainder in any graphic or painting medium.

Candidates should bear in mind that what is required is not so much proficiency of performance as evidence of understanding of form and structure.

B. Five sketches for compositions, either in black and white or in colour. They may be with or without a representational subject; in either case they should stress the elements of design.

C. Five other examples of their work: these may include drawings, paintings (of any subject in any medium); applied designs (posters, textile designs, etc.).

The dimensions of the work listed above must be not less than 16 x 20 inches. Candidates would do well to add to their portfolios a sketch book or a group of quick sketches.

BIOLOGY

One examination paper.

The botanical part of this syllabus is the same as for Junior School Certificate Botany (p. 516) with the following modifications:—

SCHOOL CERTIFICATE EXAMINATIONS

- (a) further knowledge of the ecological interrelation of plants and animals is required.
- (b) knowledge of the characteristics of particular families of flowering plants is *not* required.

In order to fulfil the requirements of the syllabus satisfactorily, pupils must undertake individually the dissection of animals, section-cutting of plant tissues, microscopic examination of small organisms and tissues, and simple physiological experiments.

A more intensive study of the Junior School Certificate syllabus is expected, with extension along the following lines:

I. The structure, life-history, principles of classification, and evolutionary relationships of the following, based on practical study:

Plants:

- Thallophyta: Algae—Oscillatoria, Protococcus, Spirogyra, Oedogonium, Fucus or Laminaria,
Fungi—Bacteria, Yeast, Mould, Mushroom, other
Fungi including at least one parasitic form.
Lichens—general.
- Bryophyta: A Liverwort, a Moss.
- Pteridophyta: A Fern, Equisetum, Selaginella.
- Spermatophyta: Gymnosperms—one Conifer type and general characters of other local species.
Angiosperms —a Monocotyledon; Dicotyledons—herbaceous and tree types. General structure of flower, fruit, and seed. Comparison with homologous structures of preceding types.

Leading characters of the groups listed above. Trends in the evolution of a many celled body and of sexual reproduction as illustrated by the algal types, and of alternation of generations and adaptation to land life as displayed by the higher forms.

Animals:

- Protozoa—Amoeba, Euglena, Paramoecium, Plasmodium.
- Coelenterata—Hydra, Obelia.
- Platyhelminthes—Fasciola, Taenia.
- Annelida—Lumbricus, external characters of a Polychaete.
- Arthropoda—Crayfish, Grasshopper.
- Mollusca—Clam or Snail.
- Cephalochorda—Amphioxus.
- Pisces—Dogfish.

Amphibia—Frog.

Mammalia—Rabbit or Rat, skull of Dog or Cat.

Comparison of the various organ-systems in the animals listed.

Asexual and sexual reproduction. Alternation of generations.

Elements of vertebrate embryology as found in the developing Frog and in the Chick (up to end of third day of incubation), to be studied practically.

II. Physiology: structure in relation to function.

Plants—Microscopic structure of a typical leaf, root, herbaceous stem, and woody stem studied in relation to the functions of the organ and its parts.

A fuller knowledge of the principal physiological processes as outlined in the Junior Syllabus. This should be based on simple experiments carried out by the student, which he may be asked to describe.

Animals—The chief physiological processes, as outlined in the Junior Syllabus, should be studied more fully and comparatively in all the types listed in Section I

Tissues and organs and their functions as observed in Vertebrates.

Respiratory pigments. Vitamines, Hormones. Commensalism
Parasitism

III. Field Natural History and Ecology.

This should be extended beyond the Junior Syllabus to include study of several biotic communities of the neighbourhood, with some knowledge of the dominant plants and animals in each and their relation to one another and to the physical environment.

Life zones and living natural resources of Canada.

IV. Heredity and Evolution.

The main principles of heredity and variation among plants and animals.

Cytological basis of heredity.

Evidences of organic evolution.

CHEMISTRY

One examination paper.

The examination will be designed to test the candidate's knowledge of Theoretical and Descriptive Inorganic Chemistry as outlined below.

Theoretical—The properties of gases, liquids, solids, and solutions as required to establish the Kinetic Molecular Theory. The Laws of

SCHOOL CERTIFICATE EXAMINATIONS

Chemical Combination leading to the formulation of the Atomic Theory and the calculation of equivalent, atomic, and molecular weights. The detailed structure of atoms and molecules including a description of the various types of chemical bonds. The factors affecting the rate of chemical reaction and the point of equilibrium in a physical and chemical change. The properties of solutions of electrolytes leading up to the Theory of Ionization and ionic equilibria. Oxidation and reduction reactions as required to establish the Activity Series.

Descriptive Inorganic—A systematic treatment of the occurrence, preparation, physical and chemical properties of: (a) the following Groups in the Periodic Classification of the Elements: Alkali Metal, Alkaline Earth Metal, Carbon, Oxygen, Nitrogen, and Halogen. (b) the following additional metals: Aluminium, Copper, Silver, and Iron.

Particular emphasis is to be placed on a correlation of properties with atomic and molecular structure.

This is to be accompanied by descriptive and quantitative experiments including volumetric analyses, illustrative of the important principles and theories.

The candidates's notebook showing *his own* laboratory work (together with any problems or exercises related to the laboratory work), certified by the Instructor and the Principal of the School, must be forwarded to the Registrars' Office for the examiner's evaluation *before the date of the written examination*.

Suggested texts: Scarlet and Gomez-Ibanez, *General College Chemistry* (Holt); Graham and Cragg, *The Essentials of Chemistry* (Clarke, Irwin); Holcomb and Onyszchuk, *A Laboratory Manual of General Chemistry* (McGill).

ENGLISH

Two examination papers: one on English Literature and one on English Composition.

COMPOSITION

The examination will be designed mainly to test the candidate's ability to write English. He will be expected to have acquired a fairly clear and accurate style, to be able to arrange material in an effective fashion, and to show discrimination in the choice of words. He may be asked to write a précis to demonstrate his ability to extract the essential meaning of a given passage. In preparation for the examination it is suggested that students be required to write mainly on simple, expository subjects that are within the range of their actual experience.

LITERATURE

1. Shakespeare—1961 Either *King Lear* or *Cymbeline*.
 1962 Either *Othello* or *The Tempest*.
 1963 Either *Antony and Cleopatra* or *The Winter's Tale*.
 No particular edition of the above is prescribed.
2. Milton—1961 *L'Allegro, Il Penseroso, Comus, Lycidas, the sonnets included in Century Readings*.^{*}
 1962 *Paradise Lost, Books I and II, and Book III lines 1-55*.
 1963 *Samson Agonistes*.
3. One Poet of the Nineteenth Century—
 1961 Wordsworth.
 1962 Byron.
 1963 Keats.

No particular edition of the above is prescribed.

Candidates are not required to study the complete works of these authors. Teachers are recommended to make their own selection so as to give their students an understanding of the relevant poet's best and most characteristic work.

4. The following texts from *Century Readings*:^{*}

(a) Poetry:

- Chaucer, *Prologue to the Canterbury Tales*.
 All the Ballads included in the volume.
 Spenser, *The Faerie Queene, Book I, Canto 1*.
 All the lyrics by Campion, Herrick, Herbert, and Vaughan included in the volume.
 Dryden, *Alexander's Feast and Absalom and Achitophel*.
 Pope, *The Rape of the Lock*.
 All the poems by Gray and Goldsmith included in the volume.
 Wordsworth, *The Solitary Reaper, Ode to Duty, Character of the Happy Warrior, Ode, Tintern Abbey*, several sonnets.
 Burns, *Tam-O'Shanter, The Cottar's Saturday Night*.
 Coleridge, *Kubla Khan, The Rime of the Ancient Mariner*.
 Shelley, *Ode to the West Wind*.
 Byron, *Don Juan, Canto iii*.
 Keats, *Eve of St. Agnes, Ode on a Grecian Urn, To Autumn, La Belle Dame Sans Merci*.
 Tennyson, *Locksley Hall*, selections from *In Memoriam* and *Morte d'Arthur*.

^{*}*Century Readings in English Literature*, edited by Cunliffe, Pyre, and Young.

SCHOOL CERTIFICATE EXAMINATIONS

Browning, *Abt Vogler*, *My Last Duchess*, *Andrea del Sarto*,
Memorabilia, *De Gustibus*
Arnold, *Rugby Chapel*.

(b) Prose:

Malory, *Morte d'Arthur*: *Preface by Caxton*, and first five chapters
of *Book 21*.

Bacon, *Of Truth*, and *Of Studies*.

Walton, *Compleat Angler*, *Chapter IV*.

Bunyan, *Pilgrim's Progress*, the extract included in the volume.

Defoe, *The Education of Women*.

Swift, *A Modest Proposal*.

Steele, *Sir Roger in Love*.

Addison, *Sir Roger at the Assizes*, *Party Patches*, and *West-
minster Abbey*.

Johnson, *Letter to the Earl of Chesterfield*.

Newman, *The Idea of a University*, *Discourse VI*.

5. Poems by any or all of the following, selected at the discretion of the
candidate from any available editions:

Housman, Davies, Hardy, Yeats, Auden, Spender, Eliot.

6. Any five items selected from the *Pocket Book of Short Stories*.

7. E. M. Forster, *A Passage to India*.

8. J. M. Synge, *Riders to the Sea*

FRENCH

Two examination papers: one on Texts and Grammar and one on Com-
position and Sight Translation.

Texts:

For critical study:

1961—Mauriac, *Les Chemins de la Mer* (Keating and Swain) (Heath);
Mérimée, *Carmen et Autres Nouvelles* (Ed. Blondheim) (Heath); de Musset,
Trois Comédies (McKenzie) (Heath); Bart, *La France carrefour des
civilisations* (Harcourt Brace).

1962—Mérimée, *Carmen et Autres Nouvelles* (Ed. Blondheim) (Heath);
de Musset, *Trois Comédies* (McKenzie) (Heath); Gabrielle Roy, *La petite
poule d'eau* (Ed. R. W. Torrens) (Clarke, Irwin & Co); Bart, *La France
carrefour des civilisations* (Harcourt Brace).

Suggested Grammar:

Sonet and Shortliff, *Review of Standard French* (Harcourt Brace).

Translation at Sight from English into French and from French into English.

***Oral Examination:** An oral examination is held in centres where this is possible, and students intending to study French at the University are strongly advised to take this examination. The oral examination is given in *addition* to the two papers. Success in the oral examination is recorded on the candidate's certificate. A candidate who fails in the oral examination does not thereby prejudice his chances of obtaining a certificate, but is treated exactly as though he had not attempted the oral test.

GEOGRAPHY

It is presumed that candidates taking this examination will have mastered the elements of geography as outlined in the syllabus for the Junior Examination.

A. *Local Geography* (one quarter of the course)

An intensive study of the candidate's home locality, especially of the distribution of population and economic activities in relation to the main physical features and climate of the region. This study should be based on actual excursions and a detailed examination of the appropriate large scale maps (published by the Hydrographic and Map Service Branch of the Department of Mines and Resources).

B. *Regional Geography* (three quarters of the course)

A detailed study of the Americas (North, Central, and South) and Europe, including the U.S.S.R. The general lines of the course should follow the directive laid down in the Junior Examination syllabus, but greater attention should be given to the following matters:

- (i) The geological structure of the countries concerned, and the effect of this structure on the scenery and natural resources.
- (ii) The part played by the countries of Europe in the history of exploration and the development of maritime trade.
- (iii) The characteristic settlement types and distribution of population in the various countries, and the ways in which these are changing.

*Candidates who wish to take the examination in Oral French at a centre outside Montreal must send in the special early notification mentioned in the footnote on page 506.

SCHOOL CERTIFICATE EXAMINATIONS

GERMAN

(See footnote on page 535 concerning the Senior B.Sc. or B.Eng. German requirements in special cases.)

Two examination papers: one on prescribed texts and one on translation of unseen passages from German into English and from English into German.

1961—Th. Sturm, *Immensee* (Morgan-Wooley-Heath); G. Keller *Kleider machen Leute* (Heath); K. Viebig, *Der Gefangene* (Crofts).

1962—F. Kästner, *Als ich ein kleiner Junge war* (Holt, Rinehart, Winston, N.Y.), G. Keller, *Kleider machen Leute* (Heath), K. Viebig, *Der Gefangene* (Crofts).

Translation at Sight from German into English and from English into German

GREEK

Two examination papers: one on prescribed texts and grammar, the other on composition and sight translation.

Texts: Homer, *Iliad* XXII (Pitt Press Series, Camb. Univ. Press); Lysias, pp. 30-92, in Shuckburgh's *Lysias, Orationes* (Macmillan).

N.B.—Although the above editions are suggested, others may be used.

HISTORY

One examination paper.

General History of Europe from the break-up of the Roman Empire to 1600.

In preparing for the History papers a rigid adherence to any one author or to any one book is undesirable. A guide to Reading containing references and suggestions for teachers and students who are preparing for this History paper may be obtained from the Registrar's Office.

LATIN

Two examination papers: one on prescribed texts and grammar, the other on composition and sight translation.

Text: A. Petrie, *A Latin Reader* (Oxford University Press)

Caesar X.

Cicero XIII, XV, XXXVI, XL, XLIII, XLIV.

Sallust XLVI.

Livy I, LI.

Pliny LXVI, LXIX.

Catullus LXXIII, LXXIV.

Virgil LXXXVII, XC, XCII, CI.

Horace CIX, CX, CXI, CXIV.

Ovid CXXIV, CXXV, CXXXI, CXXXVII.

MATHEMATICS

Four figure mathematical tables will be provided.

ALGEBRA

One examination paper.

Arithmetic, geometric, and harmonic progressions, variation, permutations and combinations, binomial theorem, logarithms, number system, theory of quadratic equations, functional notation, graphical representation, miscellaneous series such as the sum of the squares and of the cubes of the natural numbers with easy deductions therefrom, as in *Intermediate Algebra* by H. Tate, published by Sir Isaac Pitman and Sons, Toronto, or as in similar textbooks.

CO-ORDINATE GEOMETRY

One examination paper.

The elements of the coordinate geometry of the straight line and circle as in *A New Analytic Geometry* by J. E. Durrant and H. R. Kingston, published by the Macmillan Co. of Canada, pp. 1-153 inclusive, and pp. 292-296, or as in similar textbooks.

TRIGONOMETRY

One examination paper.

Measurement of angles, radian measure, trigonometrical ratios or functions of one angle, of two angles, and of a multiple angle, relations between the sides and angles of a triangle, solution of triangles using logarithms, easy problems on heights and distances, general values and inverse functions, limits and approximations, as in *Elementary Trigonometry* by H. S. Hall and S. R. Knight, adapted for use in Canadian Schools, 1940 edition, published by the Macmillan Co. of Canada, Chapters I-XIII, XVII, XVIII and pp. 204-205, or as in similar textbooks.

MUSIC

Two written examination papers: one on *Advanced Rudiments and Harmony*, and one on *Form and Analysis and History*. In addition there will be a short practical examination on *Aural Training*.

(a) HARMONY

Scales; intervals; transposition of melodies; use of C clefs; barring of certain passages and determining their keys; analysis of chords; chords up to the Dominant 7th and Augmented 6th. This course leads gradually

SCHOOL CERTIFICATE EXAMINATIONS

to the writing of simple harmony in 3 or 4 parts. The work covered is that required for the Grade 10 Theoretical Examination of the Local Centre Examinations. (See the Announcement of the Faculty of Music.)

Textbooks: MacPherson, Rudiments of Music; Kitson, Elementary Harmony—Part I.

(b) FORM AND ANALYSIS

Phrase, sentence, sequence, cadence, accent, rhythm, time, melody, modulation. Early Dance Forms. Suites—with special consideration of the Minuet and Trio.

Textbooks: MacPherson, Form in Music; MacPherson, Studies in Phrasing and Form; R. O. Morris, Structure of Music.

(c) HISTORY

Musical origins, Hebrew and Greek influence on early Christian music; the rise of music in two or more parts; secular music; English, Flemish, and Italian composers; the Renaissance; instrumental music (lute, virginal, viol, etc.); opera; beginnings of the orchestra. Bach and Handel; C. P. E. Bach and sonata form; Haydn; Mozart. The Romantic Movement; nationalism in music; modern music.

Textbook: Stanford and Forsyth, A History of Music; Hadow, Music.

(d) AURAL TRAINING

Development of a mental appreciation of scale degrees; recognition of intervals and simple rhythms; easy dictation; sight reading; listening—to develop quickness of ear, memory, and natural accuracy; quality of tone.

PHYSICS

One examination paper: It will be set upon a general knowledge of the more important principles of elementary physics, the scope being that of Mendenhall, Eve, Keys, and Sutton, *College Physics* (Heath), or of any equivalent text books.

Laboratory Work: Experiments should be performed equivalent to those outlined in *An Elementary College Course in Experimental Physics* (Renouf). The student's notebook setting forth his own laboratory work, certified by the instructor and by the principal of the school, must be forwarded *before the examination* to the Registrar's Office for inspection.

CERTIFICATES RECOGNIZED

SPANISH

Two examination papers: These will be set as for the Junior School Certificate, but the examination will be of a more advanced character, and will include a short free composition.

Prescribed texts: Baroja, *Zalacain el aventurero* (Heath), Pérez Galdós, *Gloria* (Appleton-Century-Crofts).

CERTIFICATES RECOGNIZED

The following certificates will be considered *on their merits* towards meeting the University requirements for the equivalent of Senior Matriculation.

It should be particularly noted that possession of a certificate which is listed does not guarantee acceptance.

PROVINCE OF QUEBEC

Senior High School Leaving Certificate

Senior Catholic High School Leaving Certificate

PROVINCE OF ONTARIO

Grade XIII Certificate

PROVINCE OF NOVA SCOTIA

Grade XII Certificate

PROVINCE OF PRINCE EDWARD ISLAND

Third Year Certificate of Prince of Wales College

PROVINCE OF MANITOBA

Grade XII Certificate

PROVINCES OF ALBERTA AND SASKATCHEWAN

Grade XII Certificate

PROVINCE OF BRITISH COLUMBIA

Senior Matriculation Certificate

GREAT BRITAIN

In the General Certificate, passes in five suitable subjects at Ordinary level and, in addition, in two appropriate subjects at Advanced level.

In addition, pupils of recognized British Public and Secondary Schools who have obtained the General Certificate of Education with the requisite standing as recognized for Junior Matriculation may be admitted to the Second Year without further examination, if they have satisfactorily completed at school a further year's work in the subjects of the McGill Senior School Certificate, and if they are specially recommended by their headmasters or headmistresses.

McGill University



Montreal

**Scholarships, Bursaries,
Prizes, and Medals**

1960-1961

PUBLICATIONS

The following official publications are issued by the University and may be obtained from the Registrar's Office.

Announcements of Faculties and Schools as follows:

General Announcement

School Certificate Examinations

Scholarships, Bursaries, and Loan Funds

Faculty of Arts and Science (Degrees in Liberal Arts and in Pure Science. There is a separate Announcement for the School of Commerce.)

Faculty of Medicine

Faculty of Medicine Postgraduate Courses

Faculty of Dentistry

Faculty of Engineering (Degrees in Engineering and in Architecture.)

Faculty of Law

Faculty of Music

Faculty of Divinity

Faculty of Graduate Studies and Research

School of Commerce

Library School

Institute of Education

School for Graduate Nurses

School of Physical and Occupational Therapy

School of Social Work

Macdonald College (Faculty of Agriculture and School of Household Science.)

French Summer School

Extension Courses

The Directory of Staff (University administrative officers, standing committees, and officers of instruction. For limited distribution.)

The Calendar (Available for distribution only to libraries and officials of certain institutions.)

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1959-60

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The names of some scholarship holders appear under more than one heading.

Scholarships, Bursaries, Prizes, Medals, and Loan Funds

I. GENERAL STATEMENT

1. POLICY

The policy of the University Scholarships Committee is first, to recognize and honour scholarship; second, where a scholarship winner is in financial need, to meet that need as far as resources permit and as equably as possible, through its Student Aid Office. The fact that a student wins a scholarship is published. The fact that he may receive financial aid is not published.

DEFINITION OF TERMS

Funds for financial aid to students come from several different sources; general University funds, private benefactors, industry, corporations and governments. The terms used to describe awards are not therefore completely uniform. The following definitions apply to those funds allocated by the University and express the revised policy approved by the University Scholarships Committee, Senate, and the Board of Governors in 1958-59. This does not apply to certain awards whose values are indicated throughout this Announcement.

Scholarship.—A scholarship is an honour granted for distinguished academic performance. It carries no financial stipend whatever. Any scholarship winner, however, who has financial need should apply for financial assistance as indicated below.

Bursary.—A bursary is a financial award made on the basis of need, to a student whose academic achievement, promise and character are acceptable.

Loan.—A loan is a form of aid awarded to supplement a student's resources where his earning potential justifies the prospect of early repayment. In granting loans, sound academic achievement, promise and character are taken into account.

Fellowship.—A grant of a specific amount awarded for graduate study or research and based only on ability.

2. STUDENT AID OFFICE

The amount and nature of financial need is determined by the Student Aid Officer.

SCHOLARSHIPS

Applications for Entrance Scholarships should be directed to the Registrar's Office. If financial aid is requested by an entering student the Registrar will forward the request through the University Scholarships Committee to the Student Aid Office.

Applications by needy students whose scholarships have been renewed and by upper year applicants for bursaries and loans should go directly to the Student Aid Office.

Except for Fellowships, which are in a special category, the assumption is that the first responsibility for a student's education lies with his parents and with the student himself. Where, however, parental help is unavoidably inadequate, the University will help as far as possible.

Bursaries and loans are also available to students who do not have scholarship standing. A loan may be as high as one year's fees but the University does not encourage students to become heavily indebted.

All applicants for aid are expected to apply for Dominion-Provincial grants or other assistance for which they may be eligible to help them finance their University education.

SCHOLARSHIP APPLICATION

Applications for Entrance Scholarships of all kinds should be made in the first instance to the Registrar's Office. The forms should be completed and in that office by June 1st and a confidential letter should also be sent by the High School Principal. This must be done before matriculation results are known. The official matriculation results should be forwarded as soon as they are available.

GENERAL REGULATIONS

- (1) Scholarships are awarded and bursaries and loans granted only to students taking a regular course leading to a degree or diploma.
- (2) Scholarships are awarded only if an adequate academic standard is attained.
- (3) The annual income of scholarships and bursaries is usually paid in two instalments, one in October and one in January.

II. ENTRANCE SCHOLARSHIPS

Unless otherwise stated, applications for these scholarships must be made to the Registrar before 1st June.

Unless otherwise indicated, the word "Examination" is used below to denote the University School Certificate Examination, the Provincial High School Leaving Examination, the Catholic High School Leaving Examination, or any other standard examination recognized for entrance scholarships.

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Applicants who have written examinations other than the McGill School Certificate Examination should send a certified copy of their examination marks to the Registrar's Office as soon as they are published.

NATIONAL SCHOLARSHIPS.—These scholarships are designed to enable outstanding men and women from all parts of Canada who would not otherwise be able to do so to attend the University. They will be awarded both to students entering undergraduate degree courses by means of matriculation examinations and to students entering any professional faculty of the University except the Faculty of Graduate Studies and Research. The undergraduate work of students entering such professional faculties as Medicine, Dentistry, Law, Divinity, etc., must have been completed at some other university. These scholarships are tenable for four years or for the period necessary for the holder to obtain his first degree, whichever is the shorter period provided academic standing satisfactory to the University Scholarships Committee is maintained. The amount awarded will depend upon need, but may extend to the full costs of tuition, residence and board. As far as possible, holders will be accommodated in University residences, but this cannot be guaranteed.

Normally, National Scholarships will be awarded only to students who reside outside the Montreal area.

Matriculants must apply on forms to be obtained from the Registrar's Office as indicated above. Applicants for National Scholarships in the professional faculties must apply in the first instance to the Dean of the Faculty or School concerned whose deadline for admissions may be as much as six months earlier.

DAVID WOLFSON SCHOLARSHIPS.—Two of the National Scholarships have been made possible through the generosity of Mr. David Wolfson and two winners will, therefore, be designated as David Wolfson Scholars.

UNIVERSITY ENTRANCE SCHOLARSHIPS.—These scholarships are open to men and women and are awarded on the basis of very high standing in Canadian Junior or Senior Matriculation results in any province.

University Entrance Scholarships carry no financial stipend. Where there is financial need, however, winners may apply for assistance. Winners from the Montreal area may, on proof of need, receive up to full tuition fees. Winners from other parts of Canada may receive up to full tuition fees, plus \$500 as indicated by the need for financial assistance.

Application for these awards and for financial assistance should be made through the Registrar's Office as indicated above.

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J. W. MCCONNELL SCHOLARSHIPS IN SCIENCE AND ENGINEERING.—These scholarships which were made possible through the generous donation of Mr. J. W. McConnell, are awarded to students proceeding to degrees in any field of Science or Engineering and are renewable each year. Candidates must have been born in Canada and must show that their financial circumstances are such that without this scholarship they would be unable to attend the University. Upon proof of need a Montreal student may receive up to the tuition fees. A student from outside Montreal, on proof of need, may receive up to the tuition fees plus the cost of board and residence.

J. W. MCCONNELL MEMORIAL SCHOLARSHIPS.—Created and endowed by Mr. J. W. McConnell of the Board of Governors as a memorial to the men and women of the University who gave their lives in the war of 1939-45. The Scholarships are open on equal terms to men and women from any part of Canada and are tenable in the Faculty of Arts and Science, or the Faculty of Engineering. Each scholarship covers the full tuition fee as well as the cost of board and residence in Douglas Hall or the Royal Victoria College for four years or the period necessary to enable the winner to obtain his degree, whichever is the shorter. The award is made by a Special Committee which takes into consideration the character and the financial circumstances of the applicant as well as the academic record. The holder will normally forfeit the scholarship if he fails to maintain satisfactory academic standing.

MORRIS W. WILSON MEMORIAL SCHOLARSHIPS.—Established by contributions from a large number of intimate friends and business associates of the late Morris W. Wilson as a memorial to a distinguished citizen who, among his many public activities, rendered distinguished service to the cause of education, and who, at the time of his death, occupied the office of Chancellor of McGill University. The creation of the fund marks the culmination of a hope long cherished by Mr. Wilson, that of supplying the means whereby young Canadian boys and girls of outstanding ability and promise, but in poor financial circumstances, might obtain the benefits of a university education. It is hoped that this fund may be the means of assisting many deserving young Canadians, particularly those from rural areas, to become better equipped to perform the duties of citizenship and so more effectively to apply their abilities to the general development and welfare of their country.

These Scholarships are open on equal terms to men and women of Canadian parentage, now resident in Canada, and are open only to students who wish to enter the Faculty of Arts and Science, the Faculty of Engineering, or the degree course in Agriculture at Macdonald College. Each scholarship covers the full tuition fee of the student, as well as the

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cost of board and residence at Douglas Hall, the Royal Victoria College, or Macdonald College, for four years or the period necessary to enable the student to obtain his degree, whichever is the shorter. The holder will normally forfeit the scholarship if, during his course, he fails to maintain satisfactory academic standing.

GENERAL MOTORS SCHOLARSHIPS.—Three entrance scholarships at McGill University have been established by the General Motors Corporation of Canada and are open to outstanding young Canadian men and women entering the Faculty of Arts and Science, the Faculty of Engineering, or the degree courses in Agriculture or Household Science at Macdonald College. The scholarships are renewable annually, provided the holders maintain a satisfactory academic standing, for a period of four years or the period necessary to enable the winner to obtain his degree, whichever is the shorter. Should a holder withdraw or fail to maintain a satisfactory standing the scholarship may be awarded to another qualified candidate who is a member of the same class. The amount of each award is flexible and will range from an honorary award of \$200 up to an award of \$2,000 a year depending upon the demonstrated need of the individual.

INCO SCHOLARSHIP.—One entrance scholarship has been established by the International Nickel Company of Canada Ltd., restricted to study in the fields of geology, geophysics, mining, metallurgy, physics, mathematics, and engineering. The scholarship covers tuition fees and provides an additional allowance for books and living expenses. It is open to graduates of any Canadian high school or preparatory school and is awarded by the University Scholarships Committee on the basis of academic record, character, and financial need. It is renewable annually for a period of four years or the period necessary to enable the winner to obtain his degree, whichever is the shorter, provided satisfactory standing is maintained. If the holder of a scholarship withdraws from the University or fails to satisfy all the requirements, the scholarship will be awarded to another qualified student who is a member of the same class.

JAMES H. CUMMINGS SCHOLARSHIPS. Two entrance scholarships in the Faculty of Medicine have been established by a legacy from the late James H. Cummings. These scholarships have a value of at least \$500 each and will be awarded at the discretion of the Faculty of Medicine.

EDGAR WILSON AND MARGARET WILSON SCHOLARSHIPS.—These scholarships were established in 1956 by a bequest from the late Edgar Moles Wilson to provide scholarships in the case of boys to be known as the Edgar Wilson Scholarships and in the case of girls to be known as the Margaret Wilson Scholarships. They are to assist boys and girls in obtaining higher education in any faculty and are awarded by the University

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Scholarships Committee on the basis of academic merit and financial need. The awards will not exceed \$600 a year and will be renewable annually provided satisfactory standing is maintained.

SIR WILLIAM MACDONALD ENTRANCE SCHOLARSHIPS IN ARTS AND SCIENCE.—Four scholarships of \$150 each, tenable for one year only, were endowed by Sir William Macdonald and are open only to men.

SIR EDWARD BEATTY MEMORIAL SCHOLARSHIPS.—Two scholarships, one in Classics (Greek and Latin) and one in Mathematics, of the value of \$600 each, were founded by the late Sir Edward Beatty, former Chancellor of the University. The scholarships are payable at the rate of \$150 per annum for four years, and are tenable only in the Faculty of Arts and Science. The scholarships are awarded primarily for ability in either Classics or Mathematics, but school and examination records in other subjects may be taken into account.

The winner of a Sir Edward Beatty Memorial Scholarship on entering the University need not necessarily take courses leading to honours in Classics or in Mathematics, but may enter any course for which he is qualified in that Faculty.

These scholarships are open only to male students, educated in Canadian schools, whose parents are British or Canadian born.

HON. ROBERT JONES BURSARY.—Valued at \$120 per annum is granted "from time to time to some needy student for the full term of study in the Faculty of Arts and Science or Engineering." The bursary is not continued if the standing of the holder proves to be unsatisfactory.

ROBERT BRUCE SCHOLARSHIP AND BURSARY.—One entrance scholarship of \$100 for one year is available in the Faculty of Arts and Science.

One bursary of \$100 is open each year to "young men and women of promising abilities but of straitened circumstances in Arts and Science or Engineering."

FONDATION LES AMIS DE L'ART BURSARY.—A bursary of \$200 has been established by the Fondation Les Amis de l'Art as a contribution towards the costs of a complete course either in music or in literature renewable each year of the course. The award is made by the Student Aid Officer to a student under 25 and of limited financial means.

OTTAWA VALLEY GRADUATES' SOCIETY BURSARY.—This bursary of \$100 is given through the Ottawa Valley Branch of the Graduates' Society and is open only to bona fide residents of the territory of the Ottawa Valley Graduates' Society. The winner is selected by the University from candidates who have written (1) The McGill School Certificate Examination

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or (2) The Quebec Catholic or Protestant High School Leaving Examination or (3) The Ontario Grade 12 Examinations or (4) The McGill Senior School Certificate or (5) The Ontario Grade 13 Examination or (6) The Quebec Catholic or Protestant Senior High School Leaving Examination.

VALLEYFIELD ROTARY SCHOLARSHIP.—An entrance scholarship of \$500 is available to residents of the City of Valleyfield and Nitro entering the First year of the University. Preference will be given to those entering the Science or Engineering courses and to those who would not otherwise be able to attend the university. The Scholarship is awarded by the University Scholarships Committee. Application should be made to the Valleyfield Rotary Club.

SEBA ABBOTT SMITH MEMORIAL SCHOLARSHIP.—This scholarship which is restricted to women students has a minimum annual value of \$50 and a maximum annual value of \$200. It will be renewable annually until the holder obtains her first degree provided the holder maintains an academic standing satisfactory to the University Scholarships Committee. The actual value of the award will be determined each year by the Student Aid Officer according to the need of the holder.

CANADIAN PACIFIC RAILWAY SCHOLARSHIPS.—Scholarships covering five years' tuition in Chemical, Civil, Mechanical, or Electrical Engineering, or six years' tuition in the School of Architecture, or four years' tuition in the Arts or Science courses of the Faculty of Arts and Science, or in the School of Commerce, or four years' tuition in the School of Household Science, Macdonald College, or four years' tuition in the B.Sc.(Agr.) course in the Faculty of Agriculture, Macdonald College, are awarded annually by the Canadian Pacific Railway Company. These are open for competition to apprentices and other employees of the Company under twenty-one years of age, as well as to minor sons and daughters of employees.

The scholarships will be renewed until the holders obtain their first degrees provided they are entitled to full standing in the next higher year.

Forms of eligibility and full particulars as to the number of scholarships available, etc., may be obtained from Mr. T. E. Brady, Superintendent of Pensions and Staff Registrar, Pension Department, C.P.R. Offices, Montreal. Applications, on forms obtainable from the Registrar's Office, accompanied by statements of eligibility from Mr. Brady, must reach the Registrar's Office before 1st June.

GEORGE HERRICK DUGGAN MEMORIAL SCHOLARSHIPS.—Two scholarships have been established as a memorial to the late George Herrick Duggan, D.Sc., LL.D. These are:

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(a) A scholarship offered annually by the Dominion Engineering Company, Limited, open to all employees of the Dominion Engineering Company, Limited, and its wholly owned subsidiary companies, and to their sons and daughters.

(b) A scholarship offered annually by the Dominion Bridge Company, Limited, open to all employees of the Dominion Bridge Company, Limited, and its wholly owned subsidiary companies, and to their sons and daughters.

The value of each of these scholarships will not exceed \$750 if the winner comes from outside Montreal, or if in the judgment of the Committee it is desirable for the winner to reside away from home in the interests of his academic work. If the winner is able to live at home, however, the value of the scholarship will be equivalent to the full tuition fees payable to the University, and the Awarding Committee may in this case make an additional grant where there is financial need.

The purpose of these scholarships is to provide an incentive to eligible candidates to qualify themselves for a university education in engineering or scientific work or allied subjects, and to afford them financial assistance while pursuing university studies. The scholarships are awarded primarily on the intellectual attainment and academic record of the applicants, although the characters of the candidates and other circumstances are also taken into consideration. They may be granted for any period, from one to five years, inclusive. To qualify, the applicant must attain the entrance requirements from time to time established by the University for the course of study applied for, with an average standing of not less than 75%, and thereafter maintain satisfactory academic standing.

In exceptional cases qualified students in the Faculty of Arts and Science and the Faculty of Engineering may be considered for these scholarships.

CONSTRUCTION INDUSTRY SCHOLARSHIP.—A scholarship of \$525 is open annually to the sons of employees in the Construction Industry and is tenable in the Faculty of Engineering (Civil, Electrical, or Mechanical only) or the School of Architecture. The award is made by the University Scholarships Committee in consultation with the Building Trades Joint Committee. Academic qualifications and financial need are taken into consideration when making the award. The scholarship is renewable annually until the holder graduates provided his academic standing is sufficiently high. Application forms may be obtained from the Building Trades Joint Committee, 1526 St. Mark St., Montreal, and must be returned by June 1st.

FRANK P. JONES SCHOLARSHIPS.—Under the will of the late Frank P. Jones, in his lifetime President of Consumers Glass Company, Limited, provisions have been made for the establishment of one or more scholarships at McGill University, which are open to junior employees and to sons and daughters of employees of Consumers Glass Company, Limited. Each scholarship will have a maximum annual value of the amount of the holder's tuition fees plus \$150 for books and incidentals, and will be awarded by the University Scholarships Committee to a candidate with qualifications satisfactory to the University. Each candidate must have a good matriculation standing. The scholarships are renewable annually provided the holders obtain satisfactory grades in the examinations at the University.

SPRUCE FALLS POWER AND PAPER COMPANY LIMITED SCHOLARSHIP.—An entrance scholarship of \$1,000 established by the Spruce Falls Power and Paper Company Limited is open to students entering the First or Second year of the Faculty of Engineering. The award is made by the University Scholarships Committee in consultation with the Scholarships Committee of the Faculty of Engineering on the basis of academic standing, engineering promise, and financial need. The scholarship is renewable for a second year in the Faculty of Engineering provided satisfactory standing is maintained and will be of the value of \$600.

JAMES DAVIDSON MCCALL SCHOLARSHIP.—This scholarship was founded by his family in memory of James Davidson McCall, B.Eng., who was accidentally killed in September 1953, the year of his graduation. It is awarded to a student of Canadian citizenship entering First or Second year Engineering and is renewable annually until graduation provided the holder maintains satisfactory academic standing. The scholarship covers the cost of tuition fees each year. The award is based on academic merit, character, initiative, and financial need. Application should be made on the regular Entrance Scholarship form. This award will be open for competition for the 1963-64 session.

KIMBERLY-CLARK SCHOLARSHIP.—An entrance scholarship of \$600 established by the Kimberly-Clark Corporation of Canada Limited is open to students entering the First or Second year of the Faculty of Engineering. The award is made by the University Scholarships Committee in consultation with the Scholarships Committee of the Faculty of Engineering on the basis of academic standing, engineering promise and financial need. The scholarship is renewable for a second year in the Faculty of Engineering provided satisfactory standing is maintained and will be of the value of \$400. If the holder of a scholarship withdraws from the University or fails to satisfy all the requirements, the scholarship will be awarded to another qualified student who is a member of the same class.

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SIDNEY J. HODGSON SCHOLARSHIPS.—Two scholarships, of the approximate values of \$200 and \$175 respectively, were founded by Arthur J. Hodgson, Esq., in memory of his son, Sidney James Hodgson, a student of the First Year in Arts, who was killed in action on September 27th, 1918, while serving in the 66th Battery of the Canadian Field Artillery. They are open to boys and girls of Westmount High School who have been in attendance for at least one year. The \$200 scholarship is tenable only in the Faculty of Engineering and the \$175 scholarship only in the Faculty of Arts and Science. They are awarded to the pupils with the highest percentages in the Junior High School Leaving subjects required for admission to these faculties.

QUEEN ESTHER CHAPTER NO. 30 ORDER OF THE EASTERN STAR BURSARY.—This bursary of \$100 established in 1951 by the Queen Esther Chapter No. 30 Order of the Eastern Star is awarded annually by the Student Aid Officer to a deserving student entering the University.

SCHOLARSHIP GRANTED BY THE GRADUATES' SOCIETY OF THE DISTRICT OF BEDFORD.—This scholarship of \$225 is awarded each year to a student who has taken his or her High School classes (Grades IX, X, and XI) in one of the High Schools of the District of Bedford and who enters the University or Macdonald College to take any full-time degree course. The award, which may be divided between two students, is based on the results of the High School Leaving marks and is awarded by the District of Bedford Graduates' Society upon the recommendation of the University Scholarships Committee.

ST. FRANCIS DISTRICT GRADUATES' SOCIETY BURSARY.—This Bursary of \$400 is restricted to residents of the area covered by the St. Francis District Branch of the Graduates' Society and is open to pupils of any high school or private school entering any faculty or school of McGill University, including Macdonald College. The Bursary may be renewed for a second year. An amount of \$250 of the Bursary is to be repaid by the holder at the rate of a minimum of \$50 per year after graduation. The award is made by the St. Francis District Branch of the Graduates' Society on the recommendation of the University Scholarships Committee. Application forms may be obtained from the Registrar's Office.

NARCISSA FARRAND (MRS. N. PETTES) SCHOLARSHIP.—This scholarship, of not less than \$600 (\$150 for four years), founded and endowed by Mr. and Mrs. H. V. Truell, of Sweet Acre, Knowlton, Que., is awarded annually to the candidate from the Eastern Townships who obtains the highest marks in the June Entrance Examinations for admission to the Faculty of Arts and Science, and who has had his domicile in the Eastern Townships for five consecutive years immediately preceding the examination.

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GRACE FAIRLEY TRAFALGAR SCHOLARSHIP.—Founded in 1913 by certain friends and former pupils of the late Miss Grace Fairley, to signalize her long and faithful service to education as head of the Trafalgar Institute. It is of the value of \$100, is tenable for one year only, and is awarded annually to the student of Trafalgar Institute who obtains the highest marks in the June School Certificate Examination and enters the Faculty of Arts and Science.

ISABELLA C. MACRAE SCHOLARSHIP.—This scholarship of \$150 is open to residents of Maxville, Ont., who have satisfied the requirements for entrance to McGill University. Should there be no successful applicants from this locality for six years, the scholarship will subsequently be open to any resident in Ontario.

DUNCAN MCCASKILL SCHOLARSHIP.—This scholarship which is restricted to students from Nova Scotia has a minimum annual value of \$50 and a maximum annual value of \$200. It will be renewable annually until the holder obtains his or her first degree provided the holder maintains an academic average satisfactory to the University Scholarships Committee. The actual value of the award will be determined each year by the Student Aid Officer according to the need of the holder.

CHRISTIE-STORER SCHOLARSHIP.—A scholarship of the value of \$300, endowed by the above-named Chapter of the I.O.D.E. in memory of the men of St. Lambert who fell in the Great War, 1914-18, is awarded annually to the pupil residing in St. Lambert who stands highest in the June High School Leaving Examination each year at the Chambly County High School.

MONTREAL WOMEN'S CLUB ELIZA REID MEMORIAL SCHOLARSHIP.—Founded in 1927 by the Montreal Women's Club in memory of the first President of the Club, Mrs. Robert Reid. This scholarship of the value of \$150 is tenable for one year, and is awarded each year to a graduate of the Montreal High School for Girls who has completed at least Grades X and XI in this school, and who plans to enter the First year of McGill University in a degree course or to enter the Institute of Education (School for Teachers) in the Second Class Diploma course at Macdonald College.

NOTRE DAME DE GRACE WOMEN'S CLUB BURSARIES.—Two bursaries of \$150 each, tenable in the First year of the University, are awarded annually to two women students who have completed Grades X and XI in West Hill and Monklands High Schools respectively.

VERDUN WOMEN'S CLUB INC. BURSARY.—This bursary of \$100 is tenable for one year and is awarded annually by the Verdun Women's Club Inc.

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to a woman student who has completed Grade XI in the Verdun High School and who plans to enter the First year of the University. The award is based on academic record, character, and financial need.

WESTMOUNT WOMEN'S CLUB SCHOLARSHIP.—A scholarship to the value of \$200 is awarded annually by the Westmount Women's Club to a woman student matriculating into McGill University or Macdonald College from the Westmount High School.

IMPERIAL ORDER DAUGHTERS OF THE EMPIRE SECOND WAR MEMORIAL BURSARIES.—A number of bursaries in Canadian Universities for students of high academic standing and promise are offered each year by the Imperial Order Daughters of the Empire as a memorial to Canadian men and women who gave their lives in the defence of Freedom during the Second World War. At least one bursary will be awarded in each Province and one in the Yukon to sons and daughters of deceased or disabled Canadian men and women of the Services (Army, Navy, Air Force; World War II) who are receiving a pension. These bursaries are of the value of \$1,600, i.e., \$400 a year for four years provided the holder passes the examinations of each year in the spring or at the latest in the autumn of the same year, and satisfies the Provincial Committee of Selection of his or her continued fitness to retain the bursary. In making the award the Selection Committee will take into consideration the general record and standing in school, physical fitness, and family circumstances. A candidate must write the Provincial Departmental examinations and may choose the university which he or she wishes to attend. Further information and application forms may be obtained from the Provincial I.O.D.E. Educational Secretary of each Province. In Quebec, the address is 4112 Western Ave., Westmount, Quebec.

AMERICAN CAN COMPANY SCHOLARSHIPS.—These scholarships established by the American Can Company are open to junior employees who have completed at least one year's service with the Company and to sons and daughters of employees who have completed at least five years' service and whose salaries do not exceed \$700 per month. All candidates must have completed a high school education or its equivalent and must have a scholastic standing in the top third of the class. Students who have begun their college careers are not eligible. Candidates will be required to take the scholarship aptitude test given by the College Entrance Examination Board. Each scholarship is of the value of full tuition fees payable to the college or university. Each winner may choose any approved privately controlled four year college or university in the United States or any Canadian college or university belonging to the National Conference of Canadian Universities and may undertake any course of study that he or she desires.

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Further information and application forms which must be submitted by November 30th may be obtained from the Administrator, Scholarship Programme, Canadian Division, American Can Company, 92 King St. East, Hamilton, Ontario.

UNIVERSITY BURSARIES (see page 612).

KHAKI UNIVERSITY AND Y.M.C.A. MEMORIAL SCHOLARSHIP FUND (see page 627).

LEONARD FOUNDATION SCHOLARSHIPS (see page 627).

WOMEN ASSOCIATES OF MCGILL BURSARY (see page 628).

GEORGE J. MCMANUS MEMORIAL SCHOLARSHIPS (see page 625).

CHILDREN OF WAR DEAD (EDUCATION ASSISTANCE) ACT (see page 624).

DOMINION-PROVINCIAL LOANS AND BURSARIES (see page 624).

III. SCHOLARSHIPS, BURSARIES, LOAN FUNDS, AND PRIZES IN THE VARIOUS FACULTIES OF THE UNIVERSITY

A. OPEN TO STUDENTS IN ALL FACULTIES

UNIVERSITY SCHOLARSHIPS.—After one year at McGill, University Scholarships may be awarded by the University Scholarships Committee to students in any year of any undergraduate faculty. They are awarded for exceptionally distinguished work in the regular University examinations and special applications are not required.

Two of these University Scholarships have special names, the James Eccles Scholarship which is tenable in any year of any faculty, and the Frederick Smith Memorial Scholarship which is tenable only in the Faculty of Medicine.

All University Scholarships are renewable annually provided that, in the opinion of the University Scholarships Committee, the holders maintain a sufficiently high academic standing.

University Scholarships carry no financial stipend. Where there is financial need, however, winners may apply for assistance. Winners from the Montreal area may, on proof of need, receive up to full tuition fees. Winners from other parts of Canada may receive up to full tuition fees, plus \$500 as indicated by the need for financial assistance. Students with

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need, on notification of winning a University Scholarship should then apply to the Student Aid Office.

Unless otherwise stated, application for the following awards should be made to the Student Aid Office.

UNIVERSITY BURSARIES.—The University has established a number of bursaries open to students in all faculties and schools. The general regulations governing the award of these are stated on page 612. Application must be made on a special form which may be obtained from the Student Aid Office.

AID TO THE PHYSICALLY HANDICAPPED (QUEBEC).—Students in any faculty who have been resident and domiciled in Quebec for two years may apply for an outright grant if they have suffered from poliomyelitis, tuberculosis, certain forms of cardiac trouble, or some physical disability. Application should be made through the Student Counsellor, Dawson Hall.

CHILDREN OF WAR DEAD (EDUCATION ASSISTANCE) ACT.—Under this Act fees up to \$500 and monthly allowances are provided for children of Canadian veterans whose death was attributable to military service in World War I or II. Enquiries should be directed to the nearest District Office of the Department of Veterans Affairs or to the Student Counsellor, McGill University.

DOMINION-PROVINCIAL LOANS AND BURSARIES.—Most Provinces join with the Federal Government in offering bursaries, loans, or bursary-loans to degree students in many faculties and schools. These are open to men and women on equal terms. The Quebec Provincial grants given by the Department of Youth and Social Welfare are 60% bursary and 40% loan, the latter being repayable one year after graduation and bearing no interest until two years after graduation or ceasing studies. To be eligible for a Quebec grant, a student must have been resident and domiciled for two years in the Province of Quebec prior to admission to the University in a degree course, and must be under thirty years of age, in good academic standing, and in definite need of financial assistance. In some cases bursaries may be granted to married students. Students following the B.A. course and students in Divinity, Nursing and Graduate Studies are not eligible under this plan, nor are students who receive any assistance from other Government funds. The award varies with the need and will not generally exceed \$300 for a Montreal resident or \$500 for a non-resident in any one session. If the maximum amount is insufficient to enable a student to undertake or continue his studies an additional loan of \$200 per academic year in the case of a resident and \$500 per academic year in the case of a non-resident may be granted. These bursaries may be renewed upon application to the Student Counsellor, Dawson Hall,

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before 1st June if the conditions for granting the award are maintained. Applications for new bursaries must be submitted on the proper forms before 15th September. Decisions regarding renewals of these bursaries are usually made late in August, but decisions regarding the award of new bursaries are not usually made until after the middle of October. For further particulars apply to the Student Counsellor. Ontario bursaries and loans are tenable in all faculties except Divinity. Type A bursaries granted on second class standing in Grade XIII must be applied for through the school principal before July 1st. Students already at the University should apply after registration to the Student Counsellor. Students coming to McGill from other provinces should inquire from their Provincial Departments of Education whether they are eligible to participate in any comparable scheme.

CITY OF MONTREAL BURSARIES.—The City of Montreal has established a fund at McGill University to aid financially needy students whose parents are residents of the municipality of Montreal.

GEORGE J. McMANUS MEMORIAL SCHOLARSHIPS.—These Scholarships are awarded by the Student Aid Officer and are open to men or women students in any year of any faculty who have high academic records and need financial help. Each scholarship has a minimum value of \$100 and a maximum value of \$200. The actual amount awarded will depend upon the need of the winner. These scholarships may be held by students who already have other scholarships, provided they have real financial need.

PROCTER & GAMBLE STUDENT BURSARY FUND.—The Procter & Gamble Company of Canada Limited has established a fund of \$1,500 to assist needy students in any faculty or year who are of good academic standing. There is no restriction as to race, colour, creed, or national origin, but recipients will normally be Canadian residents who expect to maintain permanent residence in Canada. Awards are made by the Student Aid Officer and the minimum award is \$100. It is hoped by the Company that any student who benefits from the fund will later contribute to the general bursary funds of the University when in a financial position to do so. These bursaries may be held concurrently with other awards.

B'NAI B'RITH BURSARIES.—Three bursaries of \$100 each have been given to the University by the Mount Royal Lodge of B'nai B'rith. These bursaries are open to men and women students in any faculty. Need and scholarship will determine the award. Applications should be made to the Student Aid Officer.

B'NAI B'RITH HILLEL FOUNDATION BURSARY.—This Bursary of \$200, established by the B'nai B'rith Hillel Foundation of McGill University, is awarded

SCHOLARSHIPS

by the Student Aid Officer to a deserving student, irrespective of race, colour, or creed, in any faculty, preference being given to a student returning from service in the armed forces.

FREDERICK SOUTHAM KER BURSARY.—This bursary was established in 1941 by the late F. N. Southam in memory of his grandson, Frederick Southam Ker, who was killed in action on September 6th, 1940. This bursary of \$200 is open on equal terms to men and women of all faculties without respect to religion or race. It is awarded to a student who gives promise of becoming a good citizen but is handicapped in his or her academic course by lack of funds. Financial need, character, and academic record are all taken into account in making the award.

STUDENTS' SOCIETY BURSARIES.—In 1953 the Students' Executive Council established three bursaries to be awarded by the Student Aid Officer without restriction as to race, colour, nationality, creed, or sex. The bursaries are open to members of the Students' Society in any faculty or year with at least Second Class standing in the year preceding the award. The basis of the award is financial need, academic standing, and the candidates' contributions to student activities (other than athletics). The present value of these bursaries is \$150 each.

NATIONAL COUNCIL OF JEWISH WOMEN OF CANADA, MONTREAL SECTION, BURSARIES.—The National Council of Jewish Women of Canada, Montreal Section, offers each year a limited number of bursaries. The value of each award is normally \$100. These bursaries are awarded by the Council upon the recommendation of the Student Aid Officer. Academic standing and financial need are both taken into consideration in making the award. Although there is no legal obligation to pay back these bursaries, the National Council of Jewish Women hopes that holders will, if possible, return the money at some future time so that other students may in their turn be helped through college. Application should be made on the regular Student Aid application form.

CELIA AMDUR ISAACS MEMORIAL BURSARY.—Established in 1953 by the Montreal Section of the National Council of Jewish Women and Mr. I. Sydney Isaacs, this bursary of \$100 is awarded by the Council upon the recommendation of the Student Aid Officer. Application should be made on the regular Student Aid form.

ANNIE RABIN WOLFE BURSARY.—A bursary of \$250 in memory of the late Mrs. Annie Rabin Wolfe has been established by Mr. David Wolfe, her husband, and Mr. Nathan Wolfe, her son. The bursary, which may be divided, is open to full-time students in any faculty or school without regard to nationality or religion. It is awarded by the National Council of Jewish Women upon the recommendation of the Student Aid Officer.

STUDENTS IN ALL FACULTIES

FELIX LEOPOLD BURSARY.—This bursary of \$100 was established in 1953 by Mr. Felix Leopold of Montreal and is awarded annually by the Student Aid Officer to a needy student in any faculty. The holder must have a satisfactory academic record and be of good character, but may be of any religion or nationality.

ABRAHAM I. LANG MEMORIAL BURSARY.—This bursary of \$50 has been established by Mr. I. Wachman in memory of the late Abraham Isaac Lang, B.A. '28, B.C.L. '32. It is open to men or women students in any faculty who have satisfactory academic records and real financial need.

KHAKI UNIVERSITY AND Y.M.C.A. MEMORIAL SCHOLARSHIP FUND.—The interest on this fund is awarded in scholarships by the Student Aid Officer subject to the following two conditions:

- (i) that the scholarships may be held by undergraduates only;
- (ii) that the preference is given to sons and daughters of soldiers:
 - (a) who served in the war of 1914-18;
 - (b) who served in the war of 1939-45.

LEONARD FOUNDATION SCHOLARSHIPS.—The Leonard Foundation, created in 1916 by the late Colonel Reuben Wells Leonard and Mrs. Leonard, offers each year a number of scholarships tenable at schools, colleges, and universities in Canada, approved by the Foundation

The scholarships are open to men and women. A student to be eligible must be "a British subject, of the white race, of the Christian Religion in its Protestant form, and of the full age of fourteen years."

The amount of the award will vary with the need of the winner.

Sons and daughters of the following are given preference in the selection of scholars:

(a) Clergymen, (b) School Teachers, (c) Officers, Non-Commissioned Officers and Men, whether active or retired, of Her Majesty's naval, military, or air forces, (d) Graduates of the Royal Military College, (e) Members of the Engineering Institute of Canada, (f) Members of the Mining and Metallurgical Institute of Canada.

The University is willing to endorse and forward with its recommendation applications of any candidates who may wish to apply through the University and are approved by it.

Such candidates must make their applications on forms to be obtained from the Student Aid Office and must return these to the Student Aid Officer before January 1st in the year in which the award would be granted.

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A booklet giving further particulars may be consulted in the Student Aid Office.

WILLIAM JOHN DEY BURSARIES.—Established in 1950 under the will of the late Mary Helena Dey in memory of her father, the Reverend William John Dey, M.A., D.D., (B.A.), Class of 1867, McGill University, these bursaries are open to full-time undergraduates, both men and women, in all faculties and schools, and are awarded by the Student Aid Officer.

KENNETH M. BURKE BURSARIES.—These bursaries were established in 1946 by Dr. Hugh E. Burke in memory of his brother, the late Kenneth M. Burke. They are open to men and women in any faculty, preference being given to sons and daughters of ministers of religion.

NOURALLA LUTFY MEMORIAL BURSARIES.—Two bursaries of \$200 each were established in 1958 under the will of the late Mr. Nouralla Lutfy and a further donation from his son, Mr. John Lutfy. The awards are made by the Student Aid Officer to deserving students in any faculty or school.

FROTHINGHAM BURSARIES.—The Frothingham Bursary Fund was established in 1951 by a bequest from the late Mrs. Harriet F. Milller, the revenue of which is used to provide bursaries for outstanding women students in any faculty.

SIGMA DELTA TAU SORORITY BURSARY.—A bursary of \$125 has been established by the Sigma Delta Tau Sorority which is awarded annually by the Student Aid Officer to a worthy female student without regard to religion who has completed her First, Second, or Third year in any faculty.

WOMEN'S UNION SCHOLARSHIP (see page 647).

MONTREAL BRANCH, CANADIAN WOMEN'S PRESS CLUB SCHOLARSHIP IN JOURNALISM.—This scholarship of \$150 is open to women students in any faculty at McGill University, including Macdonald College, who are spending at least another year at the University. The qualifications are high academic standing and definite ability in writing. Preference will be given to students who intend to make journalism a career and have taken an active interest in student publications. It is restricted to Canadian citizens. Application should be made by letter to the Registrar on or before April 1st.

WOMEN ASSOCIATES OF MCGILL BURSARY.—A bursary of approximately \$200 is available each year to men and women students in any faculty. Scholarship and need will determine the award. The winner will be chosen by the Executive of the Women Associates of McGill from a list of candidates recommended by the Student Aid Officer and selected from the applicants for University bursaries.

STUDENTS IN ALL FACULTIES

MCGILL PHARMACY ALUMNI SOCIETY DR. WILLIAM H. HATCHER BURSARY.—

This bursary of \$100 has been established by the McGill Pharmacy Alumni Society in honour of Dr. William H. Hatcher. It is awarded by the Student Aid Officer and is open to deserving students irrespective of race, colour or creed. Preference is given to First or Second year B.A. or B.Sc. degree students who intend to study pharmacy after graduation and to students in the Department of Chemistry.

MCGILL NISEI CAMPUS CLUB BURSARY.—A bursary of \$50 to \$100 has been established by the McGill Nisei Campus Club and is awarded annually by the Student Aid Officer to a Canadian man or woman student of Japanese origin who has completed at least one year in any degree course. The award will be made on the basis of academic standing, character and leadership ability, and financial need. The bursary will be awarded only if an adequate standard is attained (at least a good Second Class standing) and if funds are available.

JOSEPH LAWRENCE CAPLAN MEMORIAL BURSARY.—This bursary of \$200 is awarded by the Principal on the recommendation of the Student Aid Officer to a First year student in any faculty who may be thereby helped to obtain a university education.

MCGILL U.N.T.D. BURSARY.—This Bursary, endowed by the University Naval Training Division with an annual value of \$40, is awarded by the Student Aid Officer on the recommendation of the responsible Naval authorities to the U.N.T.D. rating who is considered to be the most deserving applicant. If in any year there is no applicant of high enough quality, the award is withheld.

TEMPLE EMANU-EL SISTERHOOD BURSARY.—Established in 1946 in memory of the men who lost their lives in the war of 1939-45, this Bursary, with an annual value of \$100, is open to men undergraduates in all faculties.

ROY M. WOLVIN MEMORIAL BURSARIES (see page 638).

STUART DUNN MEMORIAL SCHOLARSHIP—Founded by Major Charles Gwyllym Dunn of Quebec City in memory of his son, Sergeant (Wireless Air Gunner) Stuart Dunn, R.C.A.F., a student at McGill University who died on active service in July, 1941. The scholarship, value \$125 per annum, is to be awarded annually to a male student of the Protestant Christian Faith whose home is outside the Island of Montreal. In making the award consideration is given to: (a) the candidate's scholarship, character, personality, and quality of leadership, (b) his need of financial assistance, and (c) the general usefulness to the community of the special branch of study he proposes to follow.

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JOSEPH ALFRED JACOBSON MEMORIAL SCHOLARSHIP.—This scholarship, of \$200, was established by the late Mr. Percy N. Jacobson and Mrs. Jacobson in memory of their son, Flight-Sergeant Joseph Alfred Jacobson, of the Royal Canadian Air Force, who was killed in action on the 28th January, 1942. The scholarship is open to men and women in any faculty on equal terms. It is given to a student selected by the Student Aid Officer on the grounds of his personality, academic strength, interest in university sports, and financial need.

CANADIAN ARMY UNIVERSITY COURSE MEMORIAL BURSARY.—This bursary has been established by the Canadian Army University Course Association of McGill University as a memorial to the three of their comrades, Richard F. Gyles, Robert J. Lockhart, and James C. Wheeler, who lost their lives in the World War, 1939-45. It is awarded by the Student Aid Officer on the recommendation of the Association and preference is given to members of the McGill Canadian Army University Course and to other men who volunteered for active service, and their children.

CHARLES MARTIN BURSARY FUND.—This fund was established in 1935 by a bequest from the late Mrs. Lillie F. Martin in accordance with the wishes of her late husband, Alfred W. Martin, in memory of his father, Charles Martin. The bursaries are awarded by the Student Aid Officer to students in any faculty on the basis of financial need.

STEEL COMPANY OF CANADA LIMITED BURSARY.—A bursary of \$500 for a maximum of four years to any one student has been established by the Steel Company of Canada Limited and is open to permanent residents of Canada. The award is made by the Student Aid Officer to a capable student who might not otherwise go to University because of lack of funds. Should the student withdraw or perform below the standards set for him, the Bursary may be awarded to another student who has the same number of years to complete before graduation.

HUNGARIAN CANADIAN ENGINEERS' ASSOCIATION BURSARY.—A bursary of \$200 for the first term and another \$200 for the second term is offered by the Hungarian Canadian Engineers' Association and is awarded by the Student Aid Officer, subject to the approval of the Association. The two awards may go to the same student. The holder must be of Hungarian descent and show proof of academic accomplishment in Canada, i.e. at least one year successfully completed at a recognized university. In order to help perpetuate and, if possible, expand the bursary, it is hoped that each bursary holder will pay back the amount of his bursary to the Association after graduation when his earning power would permit him to do so. Preference is given to students in Engineering.

SERAINE GROUP BURSARIES.—These bursaries were established in October 1956 by the Seraine Group to assist needy men students in any faculty.

ANONYMOUS DONATION FOR BURSARIES.—This bursary fund was established by an anonymous donor through the Graduates' Society in 1959. The bursaries are awarded by the Student Aid Officer to students entering the University or to undergraduates already enrolled of at least Second Class standing whose records show demonstrated qualities of leadership and character.

PRIZES

CHESTER MACNAGHTEN PRIZES.—Two prizes, one of \$50 and the other of \$30, are offered annually in a competition for the best piece of creative writing in English submitted by an undergraduate student of the University. The work submitted may be a story, a play, a poem, an essay, etc. The material should be carefully selected and properly presented. The judges will not read untidy manuscripts or a large number of newspaper clippings. Compositions that have appeared in print are not ineligible provided they have been published since 1st March, 1960. No candidate may submit more than two entries. Compositions must be typed and must reach the Registrar before the 1st March, 1961. Entries that win prizes or honourable mention will be retained by the University and filed in the Redpath Library. The competition is restricted to those students who have not previously won the First Prize. Awards are made by the University Scholarships Committee.

J. M. RUTHERFORD MEMORIAL PRIZE.—This prize of the value of \$100 is awarded for some original work or study undertaken by an undergraduate student of the University, on his own initiative, preferably outside the regular work for his or her degree. Candidates may be nominated by any member of the University staff or may apply in writing directly to the Registrar, submitting evidence of their qualifications. The competition is restricted to those students who have not previously won the Prize. Entries or nominations should be received by the Registrar not later than April 1st. The award is made by the University Scholarships Committee.

NEWCOMEN AWARD (see page 644).

NEIL STEWART PRIZE.—An annual prize of \$50 in the Hebrew Language and Literature established by Mr. Neil Stewart of Vankleek Hill in 1878, is open to students in the University and in the affiliated Theological Colleges. It is awarded on the results of an annual examination open to students of the Faculty of Divinity of the University and of the Presbyterian College. The examination will be held in the third week in

SCHOLARSHIPS

March on translation, grammar, and syntax (but not exegesis) of assigned passages of prose, prophecy, and poetry totalling about twenty-five chapters of the Hebrew Bible, together with Davidson's Hebrew grammar. Information concerning the biblical passages to be set for the examination each year may be obtained from the Registrar's Office, the Faculty of Divinity, or the Presbyterian College.

MCCHARLES PRIZE (see page 661).

SOCIETY OF CHEMICAL INDUSTRY PRIZES (see page 660).

LOAN FUNDS

Application for loans, unless otherwise stated should be made through Deans of Faculties or Directors of Schools.

UNIVERSITY LOAN FUND.—A Student Loan Fund has been established by the University to assist needy students in all Faculties. Loans are made normally only to students in upper years (see page 610), with good academic standing. Application should be made to the Student Aid Officer.

STUDENTS' SOCIETY LOAN FUND.—Established in 1956 by the Students' Society and open to students of all faculties in good academic standing without restriction as to race, nationality or creed. Primary consideration is financial need with secondary consideration given to the candidates' contributions to Students' Society activities. Application should be made to the Student Aid Officer.

UNIVERSITY LODGE LOAN FUND.—The University Lodge No. 84, Q.R., A.F. and A.M., has established a loan fund for Masons and the children of Masons in attendance at McGill University. Loans will not exceed the annual tuition fees. They are open to qualified students in all faculties and all years. Applications should be made to the Student Aid Officer. Need and academic merit will determine the awards.

ROTARY CLUB OF OTTAWA STUDENT LOAN FUND.—The Rotary Club of Ottawa has established a Student Loan Fund for Third and Fourth year students in any faculty who are residents of Carleton County, Ontario, and are attending universities throughout Canada. Annual loans will not exceed \$250. Further information and application forms may be obtained from the Student Aid Officer.

ROYAL CANADIAN AIR FORCE BENEVOLENT FUND.—Students who served in the Royal Canadian Air Force are eligible for assistance from the R.C.A.F. Benevolent Fund. This Fund makes loans or outright gifts, depending on the special circumstances involved. For further particulars, students should apply to the Student Aid Officer.

MARTLET FOUNDATION LOAN FUND.—Established in 1954 by the Martlet Foundation for students with good academic standing and athletic ability who are in need of financial assistance. Applications should be made to the Director of Athletics, Physical Education and Recreation.

BERLINER STUDENT LOAN FUND.—Established in 1919 by the late Edgar M. Berliner to provide bursaries and student loans for students in the Department of Sociology and the School of Social Work. Applications should be made to the Director of the School of Social Work.

HERSCHORN LOAN FUND.—Established in 1951 by Mr. H. E. Herschorn for the purpose of making loans to students in the Third or subsequent year of any faculty who, because of lack of funds, would otherwise be unable to continue their studies. Applications should be made to the Student Counsellor.

HAROLD N. SEGALL LOAN FUND.—Established in 1957 by a donation from the Jerry Segalls to assist deserving students in any faculty without distinction as to sex, race or creed. Applications should be made to the Student Counsellor.

CANADIAN CLUB OF MONTREAL FIFTIETH ANNIVERSARY STUDENT AID FUND.—Established in November 1955 by the Canadian Club of Montreal to commemorate the Club's Fiftieth Anniversary. The purpose of this Fund is to foster patriotism by encouraging the study of the institutions, arts, literature, and resources of Canada, and the appreciation of matters of interest and concern to Canadians. Applications should be made to the Student Aid Officer.

J. K. PRATT MEMORIAL LOAN FUND.—Established in 1952 in memory of the late Janetta K. Pratt who was Cashier at McGill University from 1929 until her death in 1952. Open to students in all faculties.

MRS. M. DOROTHEA MILLAR LOAN FUND.—Established in 1956 by Mrs. M. Dorothea Millar to assist one or more students of either sex, graduate or undergraduate, to pursue studies or research at McGill. It is to be used, in the first instance, to assist Hungarian students while this need appears to be urgent. Applications should be made to the Student Aid Officer.

SCHOLARSHIPS

- GREEK STUDENTS BURSARY AND LOAN FUND.—Established in 1952 by a group of Greek merchants to provide financial assistance for Greek students in attendance at McGill University. Applications should be made to the Student Aid Officer.
- MCGILL SOCIETY OF ONTARIO LOAN FUND.—Established in 1936 by the McGill Society of Ontario for students in the Faculty of Arts and Science.
- COMMERCIAL SOCIETY LOAN FUND.—For students in Commerce (see page 652).
- MORTON J. WHITE LOAN FUND.—For students in the School of Commerce (see page 652).
- GEORGE HENRY FROST FUND.—For students in Engineering (see page 664).
- KELLOGG FOUNDATION LOAN FUND.—For students in Medicine, Dentistry, and the School for Graduate Nurses (see pages 671, 673 and 723).
- BOSWELL JAMES LOAN FUND.—For students in Medicine (see page 671).
- WESTON FAY VOLBERG JR. MEMORIAL LOAN FUND.—For students in Medicine (see page 671).
- GERTRUDE MUDGE MEMORIAL STUDENT AID FUND.—For students in Medicine (see page 671).
- GEORGE W. MERCK MEMORIAL LOAN FUND.—For internes and residents in McGill teaching hospitals (see page 703).
- BENNETT EDUCATIONAL FUND.—For students in Engineering (see page 664).
- WADDELL LOAN FUND.—For students in Engineering (see page 664).
- ISABELLA MCLENNAN BURSARY AND LOAN FUND.—For students in Architecture (see page 664).
- MONTREAL WOMEN'S AUXILIARY OF THE CANADIAN INSTITUTE OF MINING AND METALLURGY LOAN FUND.—For students in Engineering (see page 664).
- CANADIAN INSTITUTE OF MINING AND METALLURGY MONTREAL BRANCH LOAN FUND.—For students in Engineering (see page 664).
- WICKENDEN LOAN FUND.—For students in Engineering (see page 665).
- SCIENCE '25 MEMORIAL LOAN FUND.—For undergraduate students in Engineering (see page 665).
- PI BETA PHI LOAN FUND.—For students in Social Work (see page 725).
- SOCIAL WORK ALUMNI LOAN FUND.—For students in Social Work (see page 725).

STUDENTS IN ARTS AND SCIENCE

SOUTHAM STUDENT LOAN FUND.—For students in Social Work (see page 725).

GLADYS GLASSCO MEMORIAL LOAN FUND.—For students in Music (see page 678).

A. FLEMING LOAN FUND.—For students in Law (see page 677).

W. R. AIRD LOAN FUND.—For students in Dentistry (see page 674).

COLLEGE OF DENTAL SURGEONS OF QUEBEC LOAN FUND.—For students in Dentistry (see page 674).

GRADUATE STUDENTS' LOAN FUND.—For students in the Faculty of Graduate Studies and Research (see page 720).

MACDONALD COLLEGE STUDENTS LOAN FUND.—For students in Agriculture (see page 684).

STUDENT TEACHERS' SOCIETY LOAN FUND.—For students in the Institute of Education (see page 692).

ST. GEORGE'S LODGE NO. 10 A.F. & A.M. LOAN FUND.—For students in the Institute of Education (see page 692).

ROYAL VICTORIA COLLEGE RESIDENTS' LOAN FUND.—For resident students of the Royal Victoria College (see page 648).

B. OPEN TO STUDENTS IN THE FACULTY OF ARTS AND SCIENCE

For details of Entrance Scholarships see page 612.

For scholarships open to women only see page 647.

For Scholarships, Bursaries, and Loan Funds open to undergraduates in all Faculties see page 623.

For details of awards restricted to students in the School of Commerce see page 649.

For awards open to Graduate Students see page 699.

GENERAL REGULATIONS IN ARTS AND SCIENCE

1. No applications are required. The awards are made by the Arts and Science Scholarships Committee on the basis of examination standings.

2. Unless restricted by the deed of gift or faculty regulations the awards are open to all students studying for the B.A., B.Sc., B.Com., B.Ed., or B.Ed.(P.E.) degrees.

3. Only students in regular undergraduate standing are eligible for scholarships.

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4. Scholarships will be awarded only if an adequate standard is attained.
5. If in any college year there is not a sufficient number of candidates showing adequate merit, any one or more of the scholarships offered for competition may be given to more deserving candidates in another year.
6. In order to retain his scholarship a successful candidate must proceed regularly with his college course to the satisfaction of the Faculty.
7. The annual income of the scholarships will be paid in two instalments, viz.:—One in October and one in January.

SECOND YEAR SCHOLARSHIPS

GROUP I

FACULTY SCHOLARSHIPS.—Six scholarships of \$100 each are offered to students advancing from the First to the Second year for proficiency in their subjects of study. The awards will be made on the basis of the students' complete academic records and on recommendations from the departments in which they have taken their courses.

GROUP II

The following scholarships are also offered, according to the terms indicated, to students advancing from the First to the Second year.

JANE REDPATH EXHIBITION.—Founded by the late Mrs. Redpath, for the maintenance of an exhibition in Arts and Science. It is restricted to men and is awarded on the result of the sessional examinations of the First year to the man who makes the highest average on the year's work. Value \$100.

MARGARET JANE ALLAN SCHOLARSHIP.—This scholarship, of \$200, was established in 1929 by a bequest to the Royal Victoria College from Mrs. Agnes W. Allan. It is awarded each year to the woman student in either the B.A. or the B.Sc. courses in Arts and Science who obtains the highest standing in the sessional examinations of the First year.

CHARLES ALEXANDER SCHOLARSHIP.—Established in 1870 by Charles Alexander, "for the encouragement of the study of Classics and other subjects." Value \$100.

BARBARA SCOTT SCHOLARSHIP.—Founded by the will of the late Barbara Scott to form an annual scholarship for the student "excelling in Classics in the First Year." Value \$100.

STUDENTS IN ARTS AND SCIENCE

ALEXANDER ADILMAN SCHOLARSHIP.—Established in 1957 under the will of the late Alexander Adilman, this scholarship of \$300 is awarded to a student of merit who has completed the First year in the Faculty of Arts and Science. This scholarship is offered for a period of five years only beginning with the 1957-58 session.

SCHOLARSHIPS TENABLE IN THE SECOND, THIRD, OR FOURTH YEARS

GROUP III

UNIVERSITY SCHOLARSHIPS.—(see page 623).

SIR WILLIAM MACDONALD SCHOLARSHIPS.—Six scholarships of \$150 each are open to men students in the Second, Third, and Fourth years.

†**SIR WILLIAM DAWSON SCHOLARSHIP.**—Given by the New York Graduates' Society; value \$60. Open also to students in Engineering.

PETERSON MEMORIAL SCHOLARSHIPS IN CLASSICS.—Founded in memory of Sir William Peterson, Principal of McGill University from 1895 to 1918, by his son, W. G. Peterson, M.A. Two scholarships of \$250 each are open to students in any year.

DR. BARCLAY SCHOLARSHIP.—Awarded in the Classics Department, value \$60.

REFORD SCHOLARSHIP.—The interest on this fund, amounting to about \$200 per annum, will be equally divided each year and placed at the disposal of the Departments of English and Philosophy.

HARRY ROSENFELD MEMORIAL SCHOLARSHIP. This scholarship of \$200 for students in the Humanities was established in 1958 by a bequest under the will of the late Harry Rosenfeld. It is offered for a period of five years only beginning with the 1958-59 session.

HOUSTON SCHOLARSHIP.—Founded by the will of Thomas Houston, to establish a scholarship for French students studying for the ministry of the Presbyterian Church or the United Church of Canada. It is open only to undergraduates in the Faculty of Arts and Science and the Faculty of Divinity under the above restriction and is awarded by the University Scholarships Committee on the result of the sessional examinations without regard to year. The value is \$125.

MAJOR HIRAM MILLS SCHOLARSHIP.—This scholarship, of the value of \$50, is open to students in any of the biological sciences including Anatomy, Bacteriology, Biochemistry, Botany, Genetics, Physiology, and Zoology. It is open to both men and women.

†*Not to be awarded until further notice.*

SCHOLARSHIPS

PENHALLOW SCHOLARSHIP IN BOTANY.—This scholarship of \$100 is open to men and women entering the Second, Third, or Fourth year of the undergraduate course. The award is made by the Faculty of Arts and Science on the recommendation of the Department of Botany.

LOGAN SCHOLARSHIPS.—Two scholarships of \$100 each, one in the Department of Geological Sciences and the other in the Departments of Botany and Zoology, are open to men and women entering the Second, Third, or Fourth year of the undergraduate course. The awards are made by the Faculty of Arts and Science on the recommendation of the Department of Geological Sciences in the one case and on the joint recommendation of the Departments of Botany and Zoology in the other case.

R. P. D. GRAHAM SCHOLARSHIPS AND MEDALS.—Scholarships provided from the income on a fund endowed by former students of Dr. R. P. D. Graham, Professor Emeritus of Mineralogy, are available to students entering the Second, Third, or Fourth year of the B.Sc. course and to students entering the Third, Fourth, or Fifth year of the Mining Engineering course. The awards are made by the Scholarships Committee of the Faculty of Arts and Science on the recommendation of the Chairman of the Department of Geological Sciences. A bronze medal bearing a likeness of Professor Graham will be given to each student receiving one of these awards.

ROY M. WOLVIN MEMORIAL SCHOLARSHIPS AND BURSARIES.—Two scholarships of \$375 each are given by Mrs. Roy M. Wolvin in memory of her husband. One scholarship is restricted to men undergraduates in the Faculty of Engineering and one is restricted to women undergraduates in the Faculty of Arts and Science. These two awards are made by the Faculty Scholarships Committees on the basis of the results of the sessional examinations. The bursaries are open to students in any undergraduate faculty who have a good academic record and need financial assistance. Application should be made to the Student Aid Officer.

MCGILL ALUMNAE SCHOLARSHIPS (see page 647).

MAURICE GOLDENBERG MEMORIAL SCHOLARSHIP.—This scholarship of \$100 in Government, Constitutional Law, or Public Administration has been established by Mr. H. Carl Goldenberg in memory of his father, the late Maurice Goldenberg. It is awarded annually by the University Scholarships Committee to the best candidate amongst those nominated by the Faculty of Arts and Science and the Faculty of Law. The scholarship is open to both men and women with no restriction as to race, creed, or colour.

STUDENTS IN ARTS AND SCIENCE

NORTHERN ELECTRIC AWARDS.—The Northern Electric Company has established two awards to assist deserving students to obtain a university education in Electrical Engineering, Mechanical Engineering, Engineering Physics, Honours Mathematics and Physics, or Honours Physics, and one award in Commerce. Each award will have a maximum value of \$500 per year. The awards are made by the Scholarships Committees of the Faculty of Arts and Science and the Faculty of Engineering on the basis of academic record with a minimum average of 75% or its equivalent in the previous academic year as a prerequisite. The awards are open to Canadian citizens or landed immigrants who have successfully completed at least one year at the University and are tenable in any year of the undergraduate course except the first year. Each award may be renewed for a subsequent year.

ALUMINUM COMPANY OF CANADA LIMITED SCHOLARSHIPS (see page 655).

WILLIAM HENRY HOWARD SCHOLARSHIPS (see page 655).

GEORGE HERRICK DUGGAN MEMORIAL SCHOLARSHIPS (see page 617).

PRESBYTERIAN COLLEGE SCHOLARSHIPS.—The Board of Management of the Presbyterian College offers a number of scholarships for the payment of fees of undergraduates in Arts and Science who are registered at the Presbyterian College as in training for the study of theology with a view to the Ministry and who have creditably passed the sessional examinations.

ARTS AND SCIENCE UNDERGRADUATES' SOCIETY BURSARIES.—Four bursaries of \$150 each have been established by the Arts and Science Undergraduates' Society and are awarded annually by the Student Aid Officer in consultation with members of the Society to regular members of the Society in any year. The award will be made on the basis of financial need, academic standing, and contribution to the life of the University. The holder must have obtained at least Second Class standing in the year previous to that for which the award is made.

THIRD YEAR SCHOLARSHIPS

GROUP IV

FACULTY SCHOLARSHIPS.—Eight scholarships of \$100 each are offered to students advancing from the Second to the Third year in both the General Course and the Honours Courses, on the basis of academic record and recommendations from departments.

GROUP V

The following scholarships are also offered, according to the terms indicated, to students advancing from the Second to the Third year.

SCHOLARSHIPS

ROBERT BRUCE SCHOLARSHIP.—From a fund, created by the will of the late Robert Bruce, of Quebec City, one scholarship of the annual value of \$75, tenable for two years, will be awarded for high standing in the examinations at the end of the Second year.

ALEXANDER MACKENZIE SCHOLARSHIP.—One scholarship of the value of \$250 is awarded annually on the results of the honours examinations of the Second year in Political Science and is open only to a student who has completed the work of that year. Tenure of the scholarship is conditional upon the holder's taking the honours work in Political Science of the Third year (see also Group VI).

HANNAH WILLARD LYMAN MEMORIAL SCHOLARSHIP.—This scholarship of \$100 is awarded annually to a woman student of the Third or Fourth year.

DELTA PHI EPSILON SORORITY BURSARY.—This bursary, founded by the Delta Phi Epsilon Sorority in memory of Edith Silver, is of the value of \$100 and is open to a deserving woman student entering the Third year of the Faculty. It is awarded by the Student Aid Officer.

KNIGHTS OF PYTHIAS SCHOLARSHIP.—This scholarship, of \$300, is awarded annually to a student in the Social Sciences. It is open on equal terms to men and women. The winner must be a resident of the Island of Montreal, and entering the Third year of the B.A. course. The award may be renewed for a further year if the holder proves to be worthy of such recognition.

DOW-HICKSON SCHOLARSHIPS.—These scholarships were established in 1957 by a bequest from the late Dr. J. William A. Hickson and are awarded to students in the Third or Fourth year who are reading Honours in English Literature, Philosophy, or Psychology. The annual value of these scholarships is not less than \$1,000 each.

MONTREAL ANGLERS AND HUNTERS INC. BURSARY.—(See page 643.)

For other Third year scholarships see also Group III.

FOURTH YEAR SCHOLARSHIPS

GROUP VI

GREENBLATT SCHOLARSHIP.—From the funds left under the will of the late Mrs. Greenblatt, one scholarship of \$175 shall be awarded annually in the Faculty of Arts and Science to a student proceeding from the Third to the Fourth year, preference to be given to a student in Modern Languages (other than English) or in History. A committee selected from the Departments of History, German, and Romance Languages will be asked to make a recommendation for this award.

STUDENTS IN ARTS AND SCIENCE

ALEXANDER MACKENZIE SCHOLARSHIP.—One scholarship of the value \$250, is awarded annually on the results of the Honours examinations of the Third year in Political Science and is open only to a student who has completed the work of that year. Tenure of the scholarship is conditional upon the holder's taking the Honours work in Political Science of the Fourth year (see also Group V).

PRINCE OF WALES SCHOLARSHIP.—This scholarship of \$200 is open annually to students proceeding from the Third into the Fourth year. The award is made for general distinction by the Faculty of Arts and Science on the basis of the students' complete academic records and on the recommendations from the departments in which they have taken their courses.

ANGUS MCCOY SMITH SCHOLARSHIP.—This scholarship of \$150, founded by Mr. and Mrs. Allan L. Smith in memory of their son, Angus McCoy Smith, a graduate of the University, who was killed in the Second World War, is awarded annually to a Protestant male student of the Faculty of Arts and Science who is entering the Fourth year. The award is based on academic record, character, financial need, and general promise.

JAMES DARLING MCCALL SCHOLARSHIP.—This scholarship was founded by J. T. McCall, Esq., in memory of his son, James D. McCall, B.Sc., who was drowned shortly after the war of 1914-18, in which he served with distinction. This scholarship is awarded each year to a male student of the Fourth year professing the Christian religion, who is taking Honours in English or in Philosophy or in both these subjects. It is of the value of \$300.

SHAKESPEARE SCHOLARSHIP.—This scholarship, of the value of \$100, is awarded annually to a student advancing to the Fourth year who has shown special distinction in English Honours courses. The award is made by the Faculty of Arts and Science on the recommendation of the Department of English.

CHARLES WILLIAM SNYDER MEMORIAL SCHOLARSHIPS.—Two scholarships of \$200 each, founded by the late L. P. Snyder, Esq., in memory of his son, Charles William Snyder, a student of First year Arts who was killed in the Battle of Sanctuary Wood on June 2nd, 1916, are awarded annually on the results of the sessional examinations. One scholarship will be awarded on the recommendation of the Department of English to a student entering the Fourth year and taking full Honours in English and the other will be awarded to a student entering the Fourth year and taking Honours in English and another subject. This second award will be made on the recommendation of the Department of English and the other Department concerned in the student's combined Honours programme. These scholarships are open to male students in the Faculty of Arts and Science professing the Christian religion.

SCHOLARSHIPS

DOW-HICKSON SCHOLARSHIPS (see page 640).

CANADIAN ASSOCIATION OF TEXTILE COLOURISTS AND CHEMISTS (QUEBEC SECTION) SCHOLARSHIP.—A scholarship of \$300 awarded to the student entering the Fourth year who has obtained the highest aggregate standing in the Third year Honours Chemistry course. The award is made by the Scholarships Committee of the Faculty of Arts and Science upon the recommendation of the Department of Chemistry without restriction as to colour, race, sex or creed, or any consideration given to financial need.

ANNE MOLSON SCHOLARSHIP.—This scholarship of \$125 is open only to men and women students in the Physical Sciences proceeding from the Third into the Fourth year. The award is made by the Faculty of Arts and Science on the recommendation of the Departments of Physics, Chemistry, and Mathematics.

MOBIL OIL OF CANADA, LTD. SCHOLARSHIP IN GEOPHYSICS.—This scholarship of \$400 in Geophysics or Geology in conjunction with Physics is open to students entering the final year of the Faculty of Arts and Science. It is awarded by the Scholarships Committee of the Faculty of Arts and Science upon the recommendation of the Chairman of the Department of Geological Sciences on the basis of good character, academic standing, ability to cooperate with associates, breadth of interest, initiative, and willingness to assume responsibility.

CALIFORNIA STANDARD COMPANY GEOLOGICAL SCHOLARSHIP.—This scholarship of \$400 is awarded annually by the Scholarships Committee of the Faculty of Arts and Science to an outstanding student as an aid to completion of his final year in Geology or Geology and Physics. Preference is given to students showing interest in oil exploration and production.

ROYAL CANADIAN INSTITUTE SCHOLARSHIP.—An undergraduate scholarship of \$500 is offered annually by the Royal Canadian Institute. It is intended as an aid in the discovery and development of the young men and women who will become the future workers in science. The scholarship is open to men and women on equal terms and is tenable at any Canadian University at which the candidate is enrolled. Applications will be considered from students in their Third undergraduate year who are enrolled in one of the following courses: Botany, Zoology, Chemistry, Physics, or Geological Sciences. The holder of the award must be qualified to enrol in the final year of his course of studies at the university in which he is enrolled at the time of application. A candidate must not have passed the twenty-first anniversary of his birth on March 31st of the year of application. Application forms may be obtained from the Royal Canadian Institute, 191 College Street, Toronto 2B, Ontario, and must be submitted to the Institute by March 15th of the year of the award.

STUDENTS IN ARTS AND SCIENCE

MONTREAL ANGLERS AND HUNTERS INC. BURSARY.—An annual bursary of \$300 is open to Third or Fourth year students in Biology at McGill or at the University of Montreal who intend to make a career of wildlife conservation. Candidates must be from the Montreal area and interested in the conservation of fish and game resources in the province of Quebec. Application forms may be obtained from the Department of Zoology, Biological Building, McGill University, and must be submitted by December 1st to Dr. Gustave Prevost, Chairman of the Bursary Committee, Quebec Biological Bureau, P.O. Box 6128, Montreal 3.

For other Fourth year scholarships see Group III and Group V.

MEDALS IN ARTS AND SCIENCE

The following medals are awarded to the graduating students who stand highest in the First Class Honours List of the subjects named, provided the Faculty so recommends to Senate:

The Henry Chapman Gold Medal, for Classical Languages and Literature.

The Prince of Wales Gold Medal, for Mental and Moral Philosophy.

The Anne Molson Gold Medal, for Mathematics and Natural Philosophy.

The Shakespeare Gold Medal, for English Language and Literature.

The Logan Gold Medal, for Geology, Mineralogy, and Palaeontology.

The Major Hiram Mills Gold Medal, for Biology.

The Horace Watson Gold Medal, for Physics, awarded to the student graduating with the highest First Class standing in the four-year Honours Physics course.

The Governor-General's Gold Medal, for Modern Languages and Literature.

The Governor-General's Silver Medal awarded to the student standing highest among those graduating "with great distinction" in the general course.

The Lieutenant-Governor's Gold Medal awarded to the student who stands second among those graduating "with great distinction" in the general course.

The Lieutenant-Governor's Gold Medal awarded to the student standing highest among those graduating with great distinction in the B.Ed. course.

The Allen Oliver Gold Medal, for Economics and Political Science (founded by Mrs. Frank Oliver, in memory of her son, the late Allen Oliver, B.A., M.C., Lieutenant, 26th Battery, C.F.A., who was killed in action at the Somme, on November 18th, 1916).

SCHOLARSHIPS

The Lieutenant-Governor's Gold Medal, for History.

The French Government's Bronze Medal for excellence in French in the general or Honours course.

In addition to the above, certain medals are offered annually by the Alliance Française, at the discretion of the Department of Romance Languages.

If there is no candidate for any medal, or if none of the candidates fulfils the required conditions, the medal is withheld, and the proceeds of its endowment for the year may be devoted to prizes in the subject for which it was intended.

PRIZES IN ARTS AND SCIENCE

ANNIE MACINTOSH PRIZE.—The endowment of this prize was contributed by friends and pupils of the late Miss Annie Macintosh and by a special gift of the late Miss I. G. Macintosh. The present value of the prize is \$60. It is offered as a prize or prizes to students of the Royal Victoria College in such subject or for such work as the Faculty may determine.

PENHALLOW PRIZE IN BOTANY.—An annual prize of \$25, endowed by the Arts Undergraduate Society in 1911, is awarded to the graduating student whose complete record shows the highest first class standing in Botany. At least 4 full courses in the subject must have been taken, and Honours students will receive preference.

HENRY CHAPMAN PRIZE.—A book prize of the value of \$25 is given in modern languages (excluding English), or in Hebrew.

CHESTER MACNAGHTEN PRIZES (see page 631).

J. M. RUTHERFORD MEMORIAL PRIZE (see page 631).

NEWCOMEN AWARD.—The Newcomen Society in North America offers a prize of \$100 known as the Newcomen Award to be awarded to the student at McGill University who submits an outstanding paper on some facet of Industrial History. Entries must be submitted to the Chairman of the Department of Economics and Political Science on or before April 1st.

CHERRY PRIZES.—Two prizes in books of \$50 and \$30 each, founded by Wilbur H. Cherry, Arts 1907, and Anna Cherry, Arts 1918, in memory of their father, William Cherry, Med. 1869, and of their brother, William McFie Cherry, Arts 1911, are awarded annually by the Department of Economics and Political Science to students who are, in the opinion of the Department, deserving of such recognition.

STUDENTS IN ARTS AND SCIENCE

PETERSON MEMORIAL PRIZE IN LITERATURE.—This prize, value \$50, founded by W. G. Peterson, M.A., in memory of his father, Sir William Peterson, Principal of McGill University from 1895-1918, is awarded to the undergraduate, or graduate, student who in addition to having achieved distinction in English Literature has given evidence of creative literary ability.

DORA FORSYTH PRIZE.—An annual prize of \$50 bequeathed by the late Miss Jeanie Forsyth for English Literature. This prize is open to women students only and is awarded to a candidate recommended by the Department of English Language and Literature and approved by the Faculty of Arts and Science.

FANTHAM MEMORIAL PRIZE IN ZOOLOGY.—This prize of \$50, endowed by Dr. Annie Fantham in memory of her husband, Professor H. B. Fantham, late Strathcona Professor of Zoology and Head of the Department, is awarded annually to the graduating student who has taken the full honours course in Zoology and who ranks highest of those obtaining first class honours in this subject. The prize is open to men and women.

MADELENE HODGSON PRIZE IN HISTORY.—An annual prize of \$20 endowed by the Imperial Order Daughters of the Empire in recognition of the work done by the late Mrs. W. C. Hodgson as President of the Provincial Chapter of Quebec. The prize is awarded to the Third year Honours student in History who in the opinion of the Department of History has done the most outstanding work in this subject.

HISTORICAL SOCIETY'S PRIZE.—This prize is endowed by a fund belonging to the Historical Society. The award is made jointly by the Executive of the Historical Society and the Chairman of the Department of History to the male undergraduate in the First year who has shown the greatest promise in History and intends to read for Honours in this subject, and is awarded in books.

ANNE MOLSON PRIZE IN CHEMISTRY.—A prize of \$100 awarded annually to the student with the highest record among those graduating with First Class Honours in Chemistry.

DR. WILLIAM H. HATCHER PRIZE.—A prize of \$25 has been established by the Department of Chemistry and is awarded annually to the student attaining highest standing in the course in Elementary Organic Chemistry in which Dr. Hatcher lectured for so many years.

LOGAN PRIZES IN BOTANY AND ZOOLOGY.—A sum of \$50 is awarded annually as a prize or prizes in the Department of Botany and Zoology for original summer collections. Candidates should consult these Departments concerning the collections to be made.

SCHOLARSHIPS

PRIZE OF THE AMBASSADOR OF SWITZERLAND IN CANADA FOR FRENCH.—A prize in books for excellence in the Third year in French Language and Literature.

PRIZE OF THE AMBASSADOR OF SWITZERLAND IN CANADA FOR GERMAN.—A prize in books for excellence in German is awarded by the Faculty of Arts and Science on the recommendation of the Department of German to an undergraduate student whose mother tongue is not German.

GERMAN EMBASSY PRIZE.—A prize in books for excellence in German.

MARION MCCALL DALY PRIZE.—A prize of \$125 awarded each year to a woman student who has completed the Second year and is entering the Third year of the Faculty of Arts and Science or the Faculty of Engineering (including Architecture) at the University. The award is made by the University Scholarships Committee in consultation with the President of the McGill Women's Union and another senior woman student chosen by the Committee. In making the award the Committee takes into account (a) the candidate's promise of making a definite contribution to Canadian life, (b) the financial need of the candidate, and (c) the academic record of the candidate.

WOMEN'S PERSONNEL GROUP OF MONTREAL BOOK PRIZE.—A book prize of \$20 is awarded to the woman student in the Faculty of Arts and Science obtaining the highest First Class standing in the Third year course in Industrial Relations.

BORIS MUSKATOV PRIZE IN PSYCHOLOGY.—An annual prize of \$20 in books has been endowed by Miss Serafima Muskatov in memory of her brother, Boris Muskatov, who died on January 9th, 1948, while a student-veteran at Dawson College. This prize is offered to a student who has completed the Third year in the Faculty of Arts and Science and has done the best work in the subject of Psychology. The award is made by the Faculty of Arts and Science on the recommendation of the Department of Psychology after the Third year examination results are known.

PROVINCE OF QUEBEC PSYCHOLOGICAL ASSOCIATION PRIZE.—A prize of \$10 offered annually by the Association to a student in the final year. It is awarded on the recommendation of the Department of Psychology to the student who has, in their opinion, done the most distinguished work in Psychology throughout the course.

SOCIETY OF CHEMICAL INDUSTRY PRIZES.—See page 660.

LOAN FUNDS.—See page 632.

For awards open to graduates see page 699.

ROYAL VICTORIA COLLEGE STUDENTS

C. OPEN TO ROYAL VICTORIA COLLEGE STUDENTS

ENTRANCE SCHOLARSHIPS.—See pages 612 to 623.

MARGARET WILSON SCHOLARSHIPS.—See page 615.

SEBA ABBOTT SMITH MEMORIAL SCHOLARSHIP.—See page 617.

GRACE FAIRLEY TRAFALGAR SCHOLARSHIP.—See page 621.

ADDITIONAL SCHOLARSHIPS AND BURSARIES

For a statement of the scholarships, bursaries, and loan funds open to women students of the University, see pages 623-646.

WOMEN'S UNION SCHOLARSHIP.—This scholarship of the value of \$275 to \$350 is awarded annually by the Student Aid Officer in consultation with the President of the McGill Women's Union, another senior woman, and the Warden of the Royal Victoria College, to a woman undergraduate in any degree course, who has completed at least a year's study on this campus. The award is made to a student with a good second class average, an interest in extra-curricular activities, and financial need. No distinction is made as to nationality, race or creed.

ALPHA OMICRON PI BURSARY.—A Bursary of \$50 is given by the Alpha Omicron Pi Mothers' Club for a woman student, resident in Royal Victoria College or non-resident. The award is made on the recommendation of the Warden of the Royal Victoria College to a candidate with good academic standing and financial need.

ROY M. WOLVIN MEMORIAL SCHOLARSHIPS AND BURSARIES (see page 638).

FROTHINGHAM BURSARIES (see page 628).

SIGMA DELTA TAU SORORITY BURSARY (see page 628).

MONTREAL BRANCH, CANADIAN WOMEN'S PRESS CLUB SCHOLARSHIP (see page 628).

SPECIAL AWARDS ADMINISTERED BY A COMMITTEE OF THE ALUMNAE SOCIETY

MCGILL ALUMNAE SCHOLARSHIPS

The following scholarships have been established by the McGill Alumnae Society and are awarded annually by the Faculty of Arts and Science on the results of the sessional examinations to distinguished women students of the Second, Third, or Fourth year of the Faculty of Arts and Science:

ETHEL HURLBATT SCHOLARSHIP.—Established in memory of the late Miss Ethel Hurlbatt, a former Warden of the Royal Victoria College.

SCHOLARSHIPS

SUSAN CAMERON VAUGHAN SCHOLARSHIP.—Established in honour of Mrs. Walter Vaughan, retired Warden of the Royal Victoria College.

CARRIE DERICK SCHOLARSHIP.—Established in honour of the late Professor Carrie M. Derick, B.A. 1890, M.A. 1890, first woman professor at McGill.

GEORGINA HUNTER SCHOLARSHIP.—Established in memory of the late Georgina Hunter, a member of the first graduating class of women at McGill University, the first President of the Alumnae Society, and a former Principal of the High School for Girls, Montreal.

CATHERINE I. MACKENZIE SCHOLARSHIP.—Established in memory of the late Miss Catherine I. Mackenzie, B.A. 1904, former Principal of the High School for Girls, Montreal.

HELEN R. Y. REID SCHOLARSHIP.—Made possible by a legacy from the estate of the late Dr. Helen R. Y. Reid, B.A. 1889, LL.D. 1921, and awarded by the University Scholarships Committee to a distinguished woman student in faculties other than Arts and Science.

Each scholarship has a maximum value of \$300 and a minimum value of \$100.

The winners are interviewed by the Alumnae Scholarship Committee and the value of each award will be determined by them. Financial need will in no case affect the decision as to the winner of a scholarship but will influence the amount of the award.

ALUMNAE SOCIETY BURSARIES.—In addition to the above, a limited number of bursaries are offered by the Alumnae Society through its Scholarship Committee.

GLADYS MURRAY BURSARY.—Established by the Alumnae Society in memory of the late Mrs. Gladys Murray, for thirty-five years Secretary to the Warden of the Royal Victoria College.

ROYAL VICTORIA COLLEGE RESIDENTS' LOAN FUND.—Established in 1932 to assist resident students of the Royal Victoria College. Applications should be made to the Warden.

OTHER LOAN FUNDS.—(see page 632).

GENERAL PRIZES

MARION MCCALL DALY PRIZE.—A prize of \$125 awarded each year to a woman student who has completed the Second year and is entering the Third year of the Faculty of Arts and Science or the Faculty of Engineering (including Architecture) at the University. The award is made by the University Scholarships Committee in consultation with the President of the McGill Women's Union and another senior woman student chosen by the Committee. In making the award the Committee takes into account (a) the candidate's promise of making a definite contribution to Canadian life, (b) the financial need of the candidate, and (c) the academic record of the candidate.

EDMUND HENRY BOTTERELL PRIZE.—This prize of \$160 was established by a legacy from the late Mrs. Florence A. Redpath. Under the terms of endowment, it is to be known as the "Edmund Henry Botterell Prize" and is to be awarded on the recommendation of the Warden to a First year student registered in the Royal Victoria College. For the present the award will be made to a student whose academic interests and record combined with personal qualities indicate marked promise.

PRIZES IN ARTS AND SCIENCE

ANNIE MACINTOSH PRIZE.—The endowment of this prize was contributed by friends and pupils of the late Miss Annie Macintosh and by a special gift of the late Miss I. G. Macintosh. The present value of the prize is \$60. It is offered as a prize or prizes to students of the Royal Victoria College in such subject or for such work as the Faculty may determine.

DORA FORSYTH PRIZE.—An annual prize of \$50 bequeathed by the late Miss Jeanie Forsyth for English Literature. This prize is open to women students only and is awarded to a candidate recommended by the Department of English Language and Literature and approved by the Faculty of Arts and Science.

WOMEN'S PERSONNEL GROUP OF MONTREAL BOOK PRIZE (see page 646).

See also list of prizes in Arts, Science, Commerce, Architecture, and in all Faculties.

D. OPEN TO STUDENTS IN THE SCHOOL OF COMMERCE

For details of Entrance Scholarships see page 612.

For scholarships and bursaries open to undergraduates in all Faculties, see page 623.

SCHOLARSHIPS

SCHOLARSHIPS, BURSARIES, AND PRIZES

PRICE WATERHOUSE & CO. SCHOLARSHIP.—A scholarship of \$250, the gift of Price Waterhouse & Co., is awarded annually by a committee consisting of the Principal and Vice-Chancellor, the Director of the School of Commerce, and the Professor of Accounting, to a student in the School of Commerce who is completing his Third year and is proceeding to his final year and plans to continue his studies with a practising firm of chartered accountants. The award will be made to a student with high standing in the Third year examinations whose academic record, ability, and other qualifications are considered to be outstanding. Commerce students in the Third year who wish to be considered should make application to the Director of the School not later than April 15th.

ISAAC BRUCK MEMORIAL SCHOLARSHIPS.—The Bruck Silk Mills presents \$500 annually to the University to provide two scholarships in the School of Commerce. The scholarships may be held by the students in the Second, Third, or Fourth year of the School, and are awarded annually without respect to race or sex by the Scholarships Committee of the Faculty of Arts and Science upon the results of the sessional examinations of the School.

QUEBEC NATURAL GAS CORPORATION AWARD.—This award of \$500 is awarded annually to a candidate for the B.Com. degree who is proceeding from the Third year to the Fourth year.

LADDIE MILLEN MEMORIAL SCHOLARSHIP.—A scholarship to the value of \$250 has been established by Mr. J. Ernest Millen in memory of his son, Laddie Millen, who was killed in action in the first World War. This prize of \$250 will be awarded to the student in any year in Commerce who presents the most satisfactory essay on a topic in the field of Industrial Relations. The topic for the annual competition may be ascertained from the Director of the School of Commerce or the Director of the Industrial Relations Centre to whom essays must be submitted on or before April 1st.

NORTHERN ELECTRIC AWARDS (see page 639).

CHARLES S. C. WISDOM BURSARY.—This bursary of \$100 was established in 1956 by Mrs. Stuart Albert Wisdom in memory of her late son, Charles S. C. Wisdom who was a graduate of the Royal Military College at Kingston, and of the School of Commerce, McGill University. It is awarded by the Student Aid Officer in consultation with the Director of the School of Commerce to a deserving student in any of the last three years of the Commerce course. Application should be made to the Student Aid Officer.

STUDENTS IN COMMERCE

SYDNEY S. PAPPELBAUM BURSARY.—A bursary of \$100 in memory of the late Captain Sydney S. Pappelbaum, B.Com., 1952, is open to students in Commerce who have completed Second year and are entering Third year, with no restriction as to race, creed, or colour. Students who wish to be considered should make application to the Student Aid Officer.

BESSIE PARSONS BENTLEY STUDENT AID FUND.—This fund was established in August, 1959, by Mr. William Bentley in memory of the late Mrs. Bessie Parsons Bentley, to be used for scholarships or student aid for students in the School of Commerce. The awards are made by the Student Aid Officer, with the approval of the Director of the School of Commerce, to students whose general standing entitles them to special consideration and assistance.

MONTREAL STOCK EXCHANGE AND CANADIAN STOCK EXCHANGE PRIZE IN ECONOMICS AND FINANCE.—This prize of \$100 is offered for an essay written by a student in the final year of the School of Commerce who is enrolled in the Corporation Finance course. The subject of the essay is chosen annually by the Department of Economics in consultation with the Director of the School of Commerce. An award will only be made if the best essay is considered to be First Class. Final selection will be made by a committee consisting of the course lecturer, the Chairman of the Department of Economics, and the Director of the School of Commerce. Further information may be obtained from the course lecturer.

F. W. SHARP PRIZE IN ACCOUNTANCY AND MATHEMATICS.—This prize of \$50 will be awarded at the end of the Fourth year to the best student in Accountancy, Business Organization, and Mathematics.

CLARKSON GORDON PRIZE.—A prize of \$50 to be awarded at the end of the Fourth year to the student who obtains the highest standing in Accounting and Auditing.

JOSEPH H. JACOBS PRIZE.—The sum of \$650 was received from the executors of the estate of the late Joseph H. Jacobs. The annual revenue from this bequest, which is approximately \$25, will be awarded as a prize for Second year Accountancy.

PROFESSOR R. R. THOMPSON MEMORIAL PRIZE.—Established in honour of the late Professor R. R. Thompson by the Class of Commerce 1925, this Prize of \$50 is awarded annually to the First year student in Commerce with the highest standing in Accountancy. It is awarded by the Scholarships Committee of the Faculty of Arts and Science on the recommendation of the Director of the School of Commerce.

CHESTER MACNAGHTEN PRIZES (see page 631).

J. M. RUTHERFORD MEMORIAL PRIZE (see page 631).

SCHOLARSHIPS

MEDALS

SIR EDWARD BEATTY MEMORIAL MEDAL.—A gold medal endowed by the late Sir Edward Beatty, former Chancellor of the University, is awarded to the student in the School of Commerce who attains the highest distinction in Economics. At present, it is awarded on the basis of the aggregate marks for the three full year courses, Principles of Economics (or Honours alternatives), Money and Banking, and Economic Analysis (or Honours alternatives).

LIEUTENANT-GOVERNOR'S MEDALS.—A gold medal and a silver medal have been offered to the School of Commerce by His Honour the Lieutenant-Governor of the Province of Quebec, the gold medal for the student with the highest average throughout the last three years of study; the silver medal for the one who has the second highest average throughout the last three years of study.

LOAN FUNDS

COMMERCIAL SOCIETY LOAN FUND.—A fund has been established by the Commercial Society to be known as "The Commercial Society Loan Fund," for the purpose of aiding each year one or more students of the School of Commerce who are entering their Fourth year, to complete their course. Loans from this Fund are repayable within two years after graduation. Application should be made to the Student Aid Officer.

MORTON J. WHITE LOAN FUND.—Established in 1957 by a bequest from the late Morton J. White, to assist deserving students of the School of Commerce. Applications should be made to the Student Aid Officer.

OTHER LOAN FUNDS (see page 632).

E. OPEN TO STUDENTS IN THE FACULTY OF ENGINEERING (Including Architecture)

For scholarships and bursaries open to undergraduates in all Faculties see page 623.

GENERAL REGULATIONS IN ENGINEERING

1. Only students in regular undergraduate standing are eligible for scholarships.
2. Scholarships will be awarded only if an adequate standard is attained.

STUDENTS IN ENGINEERING

ENTRANCE SCHOLARSHIPS

WORKMAN STUDENTSHIP.—The University accepts one nomination each year for a full course in Mechanical Engineering from the executors of the estate of the late Thomas Workman, provided the student nominated

(1) is a resident of Quebec,

(2) has obtained in the examinations qualifying for admission to the University the standard required by the Scholarships Committee for University Scholarships or Bursaries.

For other entrance scholarships see pages 612 and 623.

SCHOLARSHIPS AND BURSARIES

UNIVERSITY SCHOLARSHIPS (see page 623).

ROY M. WOLVIN MEMORIAL SCHOLARSHIPS AND BURSARIES.—Two scholarships of \$375 each and a number of bursaries are given by Mrs. Roy M. Wolvin in memory of her husband. One scholarship is restricted to men undergraduates in the Faculty of Engineering and one is restricted to women undergraduates in the Faculty of Arts and Science. These two awards are made by the Faculty Scholarships Committees on the basis of the results of the sessional examinations. The bursaries are open to students in any undergraduate faculty who have a good academic record and need financial assistance. Application for the bursaries must be made to the Student Aid Office.

CANADIAN PITTSBURGH INDUSTRIES SCHOLARSHIP.—This scholarship of \$250 is awarded to a student in the Fifth year of the School of Architecture who has submitted the best solution of a design problem in which glass is a major item. The judges are a committee of the staff of the School of Architecture or practising architects.

†**SIR WILLIAM DAWSON SCHOLARSHIP.**—A Sir William Dawson Scholarship, given by the New York Graduates' Society; value \$60; open also to students in Arts and Science (see page 637).

ANGLIN BURSARY.—This bursary of \$250 was established by the late Mrs. Anglin in memory of her husband, the late Mr. J. P. Anglin, B.Sc., 1906. Applications should be made to the Dean of the Faculty.

HON. ROBERT JONES BURSARY.—This bursary of \$120 per annum, is granted "from time to time to some needy student for the full term of study in the Faculty of Arts and Science or Engineering." The bursary is continued until the holder graduates if his academic standing is entirely satisfactory. Applications should be made to the Dean of the Faculty.

†*Not to be awarded until further notice.*

SCHOLARSHIPS

BURSARY OF THE CORPORATION OF PROFESSIONAL ENGINEERS.—The Corporation of Professional Engineers presents annually a bursary of the value of \$200, tenable by a student in the Fourth or Fifth year of the Faculty of Engineering, and awarded by the Faculty.

BAYLIS SCHOLARSHIP.—Founded in memory of Mr. and Mrs. James Baylis, of Montreal, and having an annual value of \$100, this scholarship is awarded to some student entering the Third year who is in need of financial assistance. The scholarship will be continued during the Fourth and Fifth years, if the standing of the student continues to be satisfactory. Application should be made through the Dean of the Faculty.

DOUGLAS TUTORIAL BURSARIES.—The late Dr. James Douglas, who was a member of the Board of Governors, provided for ten or more tutorial bursaries of approximately \$100 per annum in the Faculty of Engineering. In assigning these, the circumstances of the applicants as well as their academic standing are considered. These bursaries carry the obligation of giving tutorial instruction equivalent to one evening a week. Students in the Fourth and Fifth years of Engineering are eligible. Written application should be made to the Dean's Office on or before October 15th.

RICHARD S. LEA TUTORIAL BURSARIES.—The late Mrs. Wanda Lea, widow of the late Richard S. Lea, Consulting Engineer and graduate in Applied Science of McGill University, provided a fund of \$5,000, the revenue of which is to be used in aid of students who distinguish themselves in the Faculty of Engineering. The revenue will be used to provide two bursaries of \$100 per annum to be given to suitable students in their last two years of Engineering, the bursaries carrying the obligation to give tutorial instruction equivalent to one evening a week. Written application should be made to the Dean's Office on or before October 15th.

H. M. MACKAY MEMORIAL SCHOLARSHIP.—This scholarship, established in 1932 as a memorial to the late Henry M. Mackay, formerly Dean of the Faculty of Engineering, will be awarded to a student of British citizenship who has completed the Second year in Engineering and intends to enter the Third year in September. A committee appointed by the Faculty selects the scholar, having in mind the results of the Second year sessional examinations, general character, industry, and other qualities desirable in an engineer. The value of the scholarship is \$125. Payment is withheld if the scholar's progress is unsatisfactory.

JENKINS BROS., LTD., SCHOLARSHIP.—Supported by Messrs. Jenkins Bros., Ltd., and having an annual value of \$200, this scholarship is open to all Engineering students entering the Fifth year in September and is awarded on the basis of academic standing and personality.

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RAYONIER CANADA LIMITED SCHOLARSHIP.—This scholarship of \$500, offered annually by Rayonier Canada Limited, is available to students entering the final year of Chemical Engineering. The award will be made to a student whose record in the academic and practical work of the **Fourth year Chemical Engineering** is outstanding.

DOW CHEMICAL OF CANADA LIMITED SCHOLARSHIP.—Dow Chemical of Canada Limited has established a scholarship of \$500 for a student in the final year of Chemical Engineering. The award is made by the Scholarships Committee of the Faculty of Engineering on the recommendation of the Chairman of the Department of Chemical Engineering, subject to the following conditions: (1) the student must have a sincere interest in the Chemical Industry; (2) the student must be in the upper half of the class; (3) the student must demonstrate some leadership in extracurricular activities; (4) the student must be "personable"; (5) the student must **not hold another scholarship.**

KENNECOTT COPPER CORPORATION SCHOLARSHIPS.—Two scholarships of \$500 each have been established by the Kennecott Copper Corporation and are open to students who have completed their Third and Fourth years in Metallurgical Engineering at McGill University. Eligible students must meet the following qualifications: (a) proficiency in studies; (b) enthusiasm, leadership, cooperativeness, initiative, ambition; (c) good health and sturdy constitution; (d) financial need. Further information may be obtained from the Chairman of the Department of Metallurgical Engineering.

WILLIAM HENRY HOWARD SCHOLARSHIPS.—Three scholarships of \$400 each were established in 1955 from the estate of the late Mrs. Florence P. Howard in memory of her husband. The scholarships are open to undergraduate and graduate students in Metallurgy, Chemical Engineering and Geology, and are awarded by the University Scholarships Committee upon the recommendations of the Departments concerned on the basis of scholastic ability and general promise. The scholarships may be renewed upon the recommendations of the Departments concerned.

ALUMINUM COMPANY OF CANADA LIMITED SCHOLARSHIPS.—Three scholarships of \$500 each are open annually to students in the Faculty of Engineering or to Honours students in the Faculty of Arts and Science, students in the School of Commerce, students in the Faculty of Law, or other faculties providing graduates in subjects of interest to the aluminum industry. The scholarships will be awarded by the University Scholarships Committee upon the recommendation of the faculties concerned on the basis of financial need, character, and ability.

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NEVIL NORTON EVANS SCHOLARSHIP—This scholarship of \$100 a year was established in 1937 by graduates of the Faculty of Applied Science (Engineering) to commemorate the work of Professor Nevil Norton Evans, formerly Professor of Chemistry. It is open to students in the Faculty of Engineering who show outstanding ability in Chemistry. The award will be made by the Faculty of Engineering and the Department of Chemistry.

STUART ALBERT WISDOM MEMORIAL SCHOLARSHIP.—This scholarship of \$200 was established in 1953 by Mrs. Stuart Albert Wisdom as a memorial to her late husband who graduated from McGill University in 1909 with the degree of B.Sc. (Mining and Metallurgy), and to commemorate his outstanding contributions to the field of metallurgy and, in particular, his invention of the process for the manufacture of acetylene black. The scholarship is awarded by the Faculty Scholarships Committee on the recommendation of the Department of Metallurgical Engineering to a student entering the Fifth year of Metallurgical Engineering who has shown high scholastic ability and engineering promise.

GORDON SPROULE MEMORIAL SCHOLARSHIP.—The Montreal Chapter of the American Society for Metals offers a scholarship of \$200 to a student in the Fourth year of the Metallurgical Engineering course. This scholarship has been established in memory of Gordon Sproule, a member of the staff of the Department of Metallurgical Engineering from 1918 to 1953, as a token of his ability and in appreciation of his many services to the Society. The award is made by the Scholarships Committee of the Faculty of Engineering on the recommendation of the Department of Metallurgical Engineering to a student of creditable academic standing, of engineering promise, and who has need of financial assistance.

AMERICAN SOCIETY FOR METALS FOUNDATION FOR EDUCATIONAL RESEARCH SCHOLARSHIP.—A scholarship of \$500 is given annually by the American Society for Metals Foundation for Educational Research to attract competent students into the study of Metallurgy. The scholarship is awarded by the Chairman of the Department of Metallurgical Engineering to a student of distinguished ability and engineering promise registering in the Third Year of the course in Metallurgical Engineering.

CANADIAN INSTITUTE OF MINING AND METALLURGY SCHOLARSHIP.—The Montreal Women's Auxiliary of the Canadian Institute of Mining and Metallurgy has established an annual scholarship of \$300 open to undergraduate or graduate students in Geology, Metallurgical Engineering, Mining Engineering, or allied subjects.

GEORGE HERRICK DUGGAN MEMORIAL SCHOLARSHIPS (see page 617).

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HEWITT EQUIPMENT LIMITED SCHOLARSHIP.—This scholarship of \$250 is awarded annually by the Faculty of Engineering to a student in the Fourth or Fifth year in any division of the engineering course. If awarded to a Fourth year student it is renewable if satisfactory standing is maintained. The award is made on the basis of academic standing and engineering promise. In the event that candidates are equal on the above basis, financial need can be considered. Preference is given to students interested in road construction or similar work connected with the Pulp and Paper Industry. No applications are required.

IRON ORE COMPANY OF CANADA SCHOLARSHIPS.—Iron Ore Company of Canada has established two scholarships of \$500 each, one for students entering the Fourth year and one for students entering the Fifth year of the Mining Engineering course. The scholarships are awarded by the Scholarships Committee of the Faculty of Engineering on the recommendation of the Chairman of the Department of Mining Engineering on the basis of academic ability, personality, need, and general suitability for a career in mining.

AMERICAN SMELTING AND REFINING COMPANY SCHOLARSHIP.—This scholarship of \$500 has been established by the American Smelting and Refining Company for a student in Mining Engineering. The award is made by the Scholarships Committee of the Faculty of Engineering on the recommendation of the Chairman of the Department of Mining Engineering and is based on academic ability, need, personality, and general suitability for a career in the mineral industry. The scholarship is limited to citizens of Canada, the United States, and Mexico, unless an exception, approved by the Company, should be made.

R. P. D. GRAHAM SCHOLARSHIPS AND MEDALS.—Scholarships provided from the income on a fund endowed by former students of Dr. R. P. D. Graham, Professor Emeritus of Mineralogy, are available to students entering the Second, Third, or Fourth year of the B.Sc. course and to students entering the Third, Fourth, or Fifth year of the Mining Engineering course. The awards are made by the Scholarships Committee of the Faculty of Engineering on the recommendation of the Chairman of the Department of Geological Sciences. A bronze medal bearing a likeness of Professor Graham will be given to each student receiving one of these awards.

ORENDA ENGINES LIMITED SCHOLARSHIPS.—Three scholarships of \$500 each have been established by Orenda Engines Limited, Toronto, Ontario, for students having completed the Second, Third, or Fourth year in Chemical, Civil, Electrical, Mechanical, Metallurgical Engineering, or Engineering Physics. One scholarship will be awarded in each of the Third, Fourth, and Fifth years on the basis of high academic standing with preference being given to students who show initiative and leadership qualities. The

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scholarships are not necessarily renewable, but three scholarships will be awarded in each session. The holders of these scholarships may hold other monetary awards of the annual value of not more than \$100.

JOHNSON'S WAX SCHOLARSHIP.—A scholarship of the total value of \$1,800 (\$600 a year for three years) is awarded each year to a student who has completed the Second year in the Faculty of Engineering and is entering the Third year course in Chemical Engineering. This scholarship is awarded by the Faculty of Engineering and will be renewed until the holder graduates provided his or her academic standing is sufficiently high. The award is made mainly on the basis of academic standing but the general qualifications of the candidates for the engineering profession and their need for financial help shall also be considered. No applications are necessary.

BOND METAL FINISHERS LIMITED SCHOLARSHIP.—This scholarship of \$500 has been established by Bond Metal Finishers Limited for a student entering the Third year of Metallurgical Engineering. The award, which may be divided, is made by the Scholarships Committee of the Faculty of Engineering on the recommendation of the Chairman of the Department of Metallurgical Engineering. The student must be in the Third year of Metallurgical Engineering, must have a good academic record and show definite promise of general success as an engineer.

NORTHERN ELECTRIC AWARDS.—The Northern Electric Company has established two awards to assist deserving students to obtain a University education in Electrical Engineering, Mechanical Engineering, Engineering Physics, Honours Mathematics and Physics, or Honours Physics, and one award in Commerce. Each award will have a maximum value of \$500 per year. The awards are made by the Scholarships Committees of the Faculty of Engineering and the Faculty of Arts and Science on the basis of academic record with a minimum average of 75% or its equivalent in the previous academic year as a prerequisite. The awards are open to Canadian citizens or landed immigrants who have successfully completed at least one year at the University and are tenable in any year of the undergraduate course except the first year. Each award may be renewed for a subsequent year.

QUEBEC NATURAL GAS CORPORATION AWARD.—This award of \$500 is made annually by the Scholarships Committee of the Faculty of Engineering and is tenable in any year of the Faculty of Engineering. The award will be made to a student possessing high scholastic ability who has demonstrated leadership qualities and a high order of engineering proficiency. If candidates have an equal assessment on the above basis, financial need will be considered. The award is not necessarily renewable.

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R. C. E. MEMORIAL SCHOLARSHIPS.—These Scholarships of \$125 each have been established by the Royal Canadian Engineers and are tenable for one year at a number of universities throughout Canada. One award is open to students at McGill University who have successfully completed their second-to-last year in the courses leading to the degree of Bachelor of Engineering or Bachelor of Architecture. Candidates must be members in good standing of the C.O.T.C. and must have successfully completed at least one summer season's training with such unit or as a member of such unit. R.O.T.P. members and ex-members of the C.O.T.C. who have successfully completed three years of C.O.T.C. training and have transferred to the Canadian Army (Militia) or (Supplementary Reserve) are also eligible. Academic standing, qualities of leadership, and participation in C.O.T.C. and student activities are taken into consideration in making this award. Candidates must be recommended by the University. Further information and application forms may be obtained from the Registrar's office. Applications must be submitted to the Registrar by March 15th.

PROVINCE OF QUEBEC MINING BURSARIES.—Each year the Department of Mines of the Province of Quebec offers a number of bursaries to enable students to take a university course in mining engineering or metallurgical engineering. The maximum annual value of these scholarships is \$650 for a student who has to live away from home in order to attend the University, and \$400 for a student who can live at home. Candidates must be Canadians and have lived for at least five years in the Province of Quebec. Further information may be obtained from the Registrar's Office. These bursaries are also open to graduate students in Metallurgy, Mining Engineering, and Geology.

A. F. BYERS BURSARY.—This Bursary of \$300 is awarded by the Student Aid Officer on the recommendation of the Scholarships Committee of the Faculty of Engineering to a student in Engineering who has a good academic record and has need of financial assistance. It is renewable annually until the holder graduates provided he maintains a satisfactory academic standard and continues to need financial help. Applications should be made to the office of the Dean.

CANADIAN BECHTEL LIMITED BURSARY.—A bursary of not less than \$200 for students in the Faculty of Engineering was established in 1959 by the Bechtel Foundation of Canada. The award will be made by the Student Aid Officer on the basis of academic standing and financial need.

STANDARD CHEMICAL BURSARY.—A bursary fund of \$500 has been established by Standard Chemical Limited for undergraduates in Engineering, preferably in the chemical field. The awards will be made by the Scholarships Committee of the Faculty of Engineering on the recommendation

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of the Chairman of the Department of Chemical Engineering, on the basis of financial need and academic standing to students in the upper years of the Chemical Engineering course.

For information concerning bursaries open to undergraduates in all Faculties see page 623.

PRIZES AND MEDALS

BRITISH ASSOCIATION PRIZES.—Two British Association prizes of \$40 and \$20 are awarded to the students obtaining the highest, and the second highest aggregate marks, respectively, in the sessional examinations in Calculus and Mechanics of the Third year.

SCOTT EXHIBITION.—A Scott exhibition of \$35, founded by the Caledonian Society of Montreal, in commemoration of the centenary of Sir Walter Scott, and a British Association prize of \$20, are awarded to the students obtaining the highest, and the second highest aggregate marks, respectively, in the sessional examinations in Mathematics, Mechanics, Descriptive Geometry, and Physics of the Second year.

CORPORATION OF QUEBEC LAND SURVEYORS PRIZE.—A prize of \$25 open to students in Civil Engineering and awarded at the end of the Fourth year by the Corporation of Quebec Land Surveyors to the student obtaining the highest standing in the subjects of the undergraduate courses in engineering comprising Surveying, up to the end of the Fourth year.

ANGLIN-NORCROSS PRIZE.—A prize of \$25, presented by the Anglin-Norcross Corporation Limited, awarded to the student obtaining the highest mark in Architectural Drawing in the Second year of the School of Architecture. This award is granted only to students whose record enables them to proceed to the next higher year.

ANGLIN-NORCROSS PRIZE.—A prize of \$25, presented by the Anglin-Norcross Corporation Limited, awarded to the student obtaining the highest marks in the Fourth year course in Design of Buildings (Design A) in the School of Architecture.

SOCIETY OF CHEMICAL INDUSTRY STUDENT PRIZES.—Two Montreal Prizes of \$50 and \$25 are offered by the Canadian Section of the Society of Chemical Industry to be competed for annually by bona-fide undergraduate students of McGill University, the University of Montreal, Macdonald College, and the Ecole Polytechnique. The papers shall be on a chemical subject coming under one of the following groups: (a) original laboratory work or original plant work; (b) original literature review; (c) critical study of plants and plant operations or chemical processes; (d) critical study

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of laboratory procedures; (e) any other subject (chemical) involving originality. Entries must be submitted to the Secretary, Canadian Section, Society of Chemical Industry, Room 800, 420 LaGauchetiere St. West, Montreal, not later than April 1st of each year.

INSTITUTE OF RADIO ENGINEERS PRIZES.—Each year two prizes will be offered to students of McGill and other approved universities for the best papers on radio engineering or some closely allied subject. The first prize is \$25 and the second prize is a student membership in the Institute of Radio Engineers for a period of two years. Essays, which may be written in French or English, must reach the office of the Dean of the Faculty of Engineering not later than the 30th of November.

CHESTER MACNAGHTEN PRIZES (see page 631).

J. M. RUTHERFORD MEMORIAL PRIZE (see page 631).

MCCHARLES PRIZE.—This prize of \$1,000, gift of the late Aeneas McCharles, is given for the discovery of improved methods of treating Canadian ores or minerals, for the development of new life-saving devices in the power and light industry, or for notable achievement in scientific research in any useful practical line, and is open to any Canadian. Further information may be obtained from the Registrar's Office.

BRITISH ASSOCIATION MEDAL.—This medal is open for competition to students of the graduating class in each of the Engineering courses, and, if the examiners so recommend, will be awarded to the student taking the highest position in the final examinations. The British Association Medals were founded by the British Association for the Advancement of Science in commemoration of its meeting held in Montreal in 1884.

ERNEST BROWN GOLD MEDAL.—This medal was founded by the late Mrs. Ernest Brown in 1952 in memory of her husband the late Ernest Brown, M.Sc., M.Eng., D.Eng., Dean of the Faculty of Engineering from 1930 to 1942. It is awarded to the student in the graduating class in any of the Departments of Engineering who has shown the highest ability throughout his undergraduate course. In making the award, while academic standing is of primary importance, account is also taken of qualities of leadership and ability to work with others.

CHARLES MICHAEL MORSSSEN GOLD MEDAL.—This medal was established by Mrs. C. Michael Morssen in memory of her husband, Charles Michael Morssen, a benefactor of the Faculty of Engineering for many years. It is awarded to a student of high academic standing and exceptional engineering promise in the graduating class in any of the Departments of Engineering.

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LIEUTENANT-GOVERNOR'S GOLD MEDAL.—Awarded to the student ranking highest in the Graduating Class in Architecture, provided his work is considered of sufficient merit.

LIEUTENANT-GOVERNOR'S SILVER MEDAL.—Awarded to the student obtaining the second place in the Graduating Class in Architecture, provided his work is considered of sufficient merit.

ROYAL ARCHITECTURAL INSTITUTE OF CANADA MEDAL.—A medal is offered annually to the student who has completed the entire course at a recognized School of Architecture, has obtained high marks throughout his course, and who gives promise of being an architect of distinction after graduation. British subjects only are eligible for this award.

LOUIS ROBERTSON PRIZE.—Founded by Mr. and Mrs. John A. Robertson, in memory of their son, John Louis Armour Robertson, who was killed in the Great War on July 18th, 1916, to be awarded in the form of books to the graduating student who ranks highest in Design in the final year of the School of Architecture.

PHILIP J. TURNER PRIZE.—A prize of \$70 presented by Mr. A. B. Darbyson, a graduate in the School of Architecture of the Class of 1915, to the student obtaining the highest marks in Building Construction of the Third year course in Architecture.

ROBERT FORSYTH PRIZE IN CIVIL ENGINEERING.—Under the will of the late Miss Jeanie Forsyth a prize of \$40 is awarded each year, if the examiners so recommend, to a "worthy and needy" student of the graduating class who secures high standing in the subjects of Theory of Structures and Strength of Materials.

ELECTRICAL MANUFACTURING CO. LTD. PRIZE.—The Electrical Manufacturing Co. Ltd. of Montmagny, Quebec, offers a prize of \$25 to the top ranking graduating student in the Power Option of the Electrical Engineering course. This prize is awarded by the Department of Electrical Engineering.

PRIZES FOR SUMMER ESSAYS

ENGINEERING INSTITUTE OF CANADA PRIZES.—The Engineering Institute of Canada offers each year a prize of books or instruments to the value of \$25 for the best paper in any branch of engineering received from an English-speaking Junior of the Institute in the Province of Quebec. This prize is known as the Phelps Johnson Prize; another of the same value, the Ernest Marceau Prize, is awarded for the best paper in French. Similar prizes are open to those located in other provinces. The successful papers become part of the literature of the Institute and place the authors

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in prominent touch with the engineering profession. Further particulars may be obtained from L. Austin Wright, General Secretary, 2050 Mansfield Street, Montreal.

ENGINEERING INSTITUTE OF CANADA PRIZE.—The Engineering Institute of Canada also offers each year a prize of \$50 to the student of the Fourth year whose standing, considered in combination with his activities in student engineering organizations, is, in the opinion of the Faculty, most meritorious.

CANADIAN INSTITUTE OF MINING AND METALLURGY PRIZES.—Two prizes, one of \$50 and one of \$25, for, respectively, the first and second best essay prepared by undergraduate students before receiving a Bachelor's degree on a subject appropriate to any one of the Institute's Technical Divisions, namely the Coal Division, the Geology Division, the Industrial Minerals Division, the Metallurgy Division, the Metal Mining Division, and the Petroleum and Natural Gas Division.

UNDERGRADUATE SOCIETY'S PRIZES.—Three book prizes to the value of \$10 are given by the Undergraduate Society of the Faculty of Engineering for the best summer essays submitted by students in the Fourth and Fifth years.

In addition, two book prizes to the value of \$10 are given by the Society for summer essays submitted by students entering the Third year.

The following regulations apply: (1) the Faculty will correct and grade the summer essays in the usual way, (2) when the classification is completed a list of those essays worthy of consideration by the Prize Committee will be posted, (3) essays awarded prizes will *ipso facto* become the property of the Engineering Undergraduate Society and will be bound by the Society and kept in the Engineering Library, and (4) a notice, to accompany the list of essays considered, will be posted stating that among the students considered those wishing to compete for the prizes should signify their intention to do so by writing to the Faculty, mentioning clearly that they accept condition No. 3.

JAMES DICKIE HALL PRIZES.—Two prizes were established by Oliver Hall in memory of his son, James Dickie Hall, lost near Cannes in June 1944, in an air battle between four R.C.A.F. and more than ninety enemy planes. These prizes of \$50 each, one in Mining and one in Metallurgy, are open to students entering the Fourth or Fifth years of these courses and are awarded for the best summer essay in each department. Prizes will not be awarded unless the essays are of high quality.

TURNBULL ELEVATOR COMPANY LIMITED PRIZES.—Four prizes of \$62.50 each have been provided by the Turnbull Elevator Company Limited of

SCHOLARSHIPS

Toronto for students of the School of Architecture who submit the best summer essays in their particular year.

AMERICAN SOCIETY OF HEATING AND AIRCONDITIONING ENGINEERS PRIZE.—This prize of \$25 and a copy of the A.S.H.A.E. Guide is awarded by the Department of Mechanical Engineering for the best summer essay in Mechanical Engineering on Heating and Air Conditioning topics.

QUEBEC ROAD BUILDERS ASSOCIATION PRIZE.—A prize, or prizes, totalling \$150, is offered annually by the Quebec Road Builders Association to the student or students submitting summer essays as part of their regular assignments and who select a topic related to the soil engineering aspects of road building.

LOAN FUNDS

GEORGE HENRY FROST FUND.—Founded by the late G. H. Frost, B.Sc. 60, to aid students who, when commencing the work of the Fourth year or a subsequent year in the Faculty of Engineering, require financial assistance. In making loans from this fund the academic standing of the applicants is considered. Applications should be made to the Dean.

WADDELL LOAN FUND.—Founded by the late J. B. Waddell, Esq. Loans are made under the same conditions as apply to the George Henry Frost Fund, except that the benefits are available to graduate students as well as to undergraduates. Applications should be made to the Dean.

CANADIAN INSTITUTE OF MINING AND METALLURGY LOAN FUND.—Founded by the Montreal Women's Auxiliary of that organization for the assistance of Engineering students in Mining, Metallurgy, Geology, and allied subjects. Applications should be made to the Dean.

CANADIAN INSTITUTE OF MINING AND METALLURGY MONTREAL BRANCH LOAN FUND.—Established in December 1958 by a donation from the Montreal Branch of the Institute to provide loans to undergraduate or graduate students in the Departments of Geological Sciences, Metallurgical Engineering and Mining Engineering. Application should be made to the Dean.

BENNETT EDUCATIONAL FUND.—Students in Engineering are eligible for loans from the Bennett Educational Fund of the Engineering Institute of Canada. Application forms may be obtained from the Office of the Dean. Loans from this fund are made normally only to students in upper years.

ISABELLA MCLENNAN BURSARY AND LOAN FUND.—Established in 1950 by Miss Isabella McLennan to aid students in the School of Architecture. Applications should be made to the Dean of the Faculty of Engineering.

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SCIENCE '25 MEMORIAL LOAN FUND.—Established in 1955 by the Class of Science '25 to provide loans for undergraduate students in Engineering. Applications should be made to the Dean.

WICKENDEN LOAN FUND.—Established in December 1958 by Mr. John F. Wickenden to aid students in the final year of Engineering who have obtained better than average standing in previous years. Application should be made to the Dean.

OTHER LOAN FUNDS (see page 632).

For awards open to Graduate Students see page 701.

F. OPEN TO STUDENTS IN THE FACULTY OF MEDICINE

For scholarships, bursaries, and loan funds open to undergraduates in all faculties see page 623.

MEDALS

HOLMES GOLD MEDAL.—Founded by the Medical Faculty in the year 1865, as a memorial of the late Andrew Holmes, M.D., LL.D., sometime Dean of the Faculty of Medicine, this medal is awarded to the student graduating with the highest aggregate number of marks in the different branches comprised in the medical curriculum.

The student who wins the Holmes Medal has the option of exchanging it for a bronze and the money equivalent of the gold medal.

WOOD GOLD MEDAL.—Founded by Casey A. Wood, M.D., LL.D., this medal is awarded to the student graduating with the highest aggregate number of marks in the oral and practical examinations in the clinical subjects of the Final year. The winner of the Holmes Medal is ineligible for this medal.

SUTHERLAND GOLD MEDAL.—This medal, founded in 1878 by the late Mrs. Sutherland in memory of her husband, William Sutherland, M.D., formerly Professor of Chemistry in this Faculty, is awarded for the best examination in Biochemistry, together with a creditable examination in the primary branches.

LIEUTENANT-GOVERNOR'S GOLD MEDAL.—This medal is awarded to the student of the final year who, in the opinion of the Chairman of the Department of Health and Social Medicine, is most proficient in that subject.

LIEUTENANT-GOVERNOR'S SILVER MEDAL.—This medal is awarded to the student who obtains the highest standing in the final examination in Physiology.

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WALTER CHIPMAN GOLD MEDAL.—This medal, founded by the late Max Streen in honour of Dr. W. W. Chipman, is awarded to the student obtaining the highest aggregate standing in Obstetrics and Gynaecology throughout the medical course.

PRIZES

JOSEPH HILS PRIZE.—(Founded by the late Dr. Joseph Hils, of Woonsocket, R.I.)—A prize in books, awarded to the student who obtains the highest number of marks in the subject of Pharmacology.

JOSEPH MORLEY DRAKE PRIZE.—(Founded by the late Joseph Morley Drake, M.D.)—A prize of \$50 in books, to be awarded to the student who obtains the highest number of marks at the final examination in Pathology.

PRIMARY PRIZE.—A prize in books awarded for the best aggregate standing in the subjects of the first two years.

F. SLATER JACKSON PRIZE.—A prize of \$35 founded by Mr. and Mrs. H. F. Jackson in memory of their son, the late F. Slater Jackson, M.D. The prize is awarded to the student who obtains the highest standing in the final examinations in Histology.

PRIZE IN MEDICAL JURISPRUDENCE AND TOXICOLOGY.—This prize of \$40 was established in 1954 and is awarded to the student who obtains the highest standing in Medical Jurisprudence and Toxicology.

ALEXANDER D. STEWART PRIZE.—An annual prize in books, founded by the late W. Grant Stewart (Arts 1885, Med. 1888) in memory of his brother, the late Alexander D. Stewart (Med. 1888), to be awarded to the member of the graduating class who, in the opinion of the Faculty, presents in every respect the highest qualifications to practise his profession.

ROBERT FORSYTH PRIZE.—Under the will of the late Miss Jeanie Forsyth a prize of \$40 is awarded each year to a student who, upon graduation, has shown particular ability in all branches of Surgery.

CAMPBELL KEENAN MEMORIAL PRIZE IN CLINICAL SURGERY.—An annual prize of \$50 has been established by Miss Charlotte Mildred Hagar in memory of the late Dr. Campbell B. Keenan. The prize will be awarded to the student in the graduating class who has shown the highest proficiency in Clinical Surgery as determined by the Chairman of the Department of Surgery. The winner of the Robert Forsyth Prize in Surgery is ineligible for this award.

STUDENTS IN MEDICINE

JOHN MUNRO ELDER PRIZE.—An annual prize of \$50 founded in 1935 by Aubrey H. Elder, Q.C., in memory of his father, John M. Elder, C.M.G., M.D., C.M., sometime Assistant Professor of Surgery in the Faculty. The prize is awarded to the student who obtains the highest standing in the final examinations, written and oral, in Anatomy.

CAMPBELL HOWARD PRIZE IN CLINICAL MEDICINE.—An annual prize of \$50 founded by Mrs. Campbell Howard, in memory of her husband, the late Dr. Campbell P. Howard, Professor of Medicine at McGill University. The prize is awarded to the student who shows the most consistent excellence in his written case reports in the subject of Clinical Medicine.

COLLEGE OF PHYSICIANS AND SURGEONS OF THE PROVINCE OF QUEBEC PRIZE IN MEDICINE AND PATHOLOGY.—This prize of \$100 is awarded to the student who obtains the highest standing in the final examinations in Medicine and Pathology. The recipient of this prize must be registered as a student in Medicine with the College of Physicians and Surgeons of the Province of Quebec.

COLLEGE OF PHYSICIANS AND SURGEONS OF THE PROVINCE OF QUEBEC PRIZE IN PAEDIATRICS.—This prize of \$100 is awarded to the student who obtains the highest standing in the final examination in Paediatrics. The recipient of this prize must be registered as a student in Medicine with the College of Physicians and Surgeons of the Province of Quebec.

MONA BRONFMAN SHECKMAN PRIZE.—Awarded to the student who obtains the highest standing in Psychiatry in the final year.

ELECTRODESIGN PRIZE.—A prize of \$25 for the highest standing in the Physiology section of the Second year course in Anatomy and Physiology of the Central Nervous System.

PRIZE IN PSYCHIATRY.—This prize of \$50 in books is awarded annually to the Third year Medical student who, in the opinion of the Awards Committee of the Department of Psychiatry, submits the best essay upon a subject to be set each year.

MONTREAL CHILDREN'S HOSPITAL CUSHING MEMORIAL PRIZE.—This prize of \$100 is awarded to the student with the highest standing in Paediatrics in the final year.

ISAAC BLATT ARTERY PRIZE.—This prize of \$250 was established by the Quebec Heart Foundation and is awarded annually for an essay on advances in knowledge of the cardiovascular system since 1947. The essay may deal with one or more special branches of knowledge—anatomy, embryology, physiology, medicine, surgery, etc. Essays should be at least 5,000 words

SCHOLARSHIPS

in length but not longer than 10,000 words. Essays are to be written by undergraduate students of medicine at McGill University and submitted to the Dean of the Faculty of Medicine of McGill University by March 15th.

WOMEN'S PAVILION PRIZE.—A prize of books for the student with the highest standing in Obstetrics and Gynaecology in the final year of the medical course.

LADY MEREDITH PRIZE.—This prize has been established by the Wolfe and Montcalm Chapter of the I.O.D.E. in memory of the late Lady Meredith. It will be awarded annually to the student with the highest standing in Obstetrics and Gynaecology in the Third year of the medical course.

F. C. HARRISON PRIZE.—A prize of \$50 to be awarded annually to the student with the highest standing in Medical Microbiology.

CHESTER MACNAGHTEN PRIZES (see page 631).

J. M. RUTHERFORD MEMORIAL PRIZE (see page 631).

SCHOLARSHIPS AND BURSARIES

NATIONAL SCHOLARSHIPS (see page 613).

JAMES H. CUMMINGS SCHOLARSHIPS (see page 615).

UNIVERSITY SCHOLARSHIPS (see page 623).

FREDERICK SMITH MEMORIAL SCHOLARSHIP.—One University Scholarship known as the Frederick Smith Memorial Scholarship is awarded only to students in the Faculty of Medicine.

DR. MAUDE E. SEYMOUR ABBOTT SCHOLARSHIPS.—Established in 1938 by an anonymous donation of \$10,000 in honour of the late Maude E. Seymour Abbott, B.A., M.D., F.R.C.P. (Canada), LL.D. (McGill), to commemorate her distinguished work in connection with the history of Canadian medicine, the Sir William Osler Pathological Collection, and her outstanding research in congenital cardiac disease.

The revenue of this fund is used for the provision of scholarships to be awarded by the University to an undergraduate in the Faculty of Medicine. While men and women are both eligible for the awards, women candidates will be given the preference. The amount of the awards will vary according to the needs of the winners. Applications in writing must reach the Secretary of the Faculty before June 30th.

J. H. B. ALLAN SCHOLARSHIP.—This scholarship of \$400 is available to undergraduate students in any year and is awarded by the Scholarships Committee of the Faculty of Medicine on the basis of scholarship and financial need. No application is required.

WALTER J. HOARE MEMORIAL SCHOLARSHIP.—This scholarship was endowed by the late Dr. Charles W. Hoare, a graduate of McGill University, in memory of his son, Walter J. Hoare, who was killed in World War I. It is open annually to pupils of the Collegiate Institutes of the counties of Essex, Kent and Lambton entering the Faculty of Medicine. If there are no qualified candidates in this preferred class, the scholarship may be awarded to another candidate nominated by the Faculty of Medicine. Applications in writing must reach the Secretary of the Faculty before June 30th.

JAMES GRAHAME KER AND FREDERICK K. PETRIE MEMORIAL SCHOLARSHIP.—This scholarship of \$400 is awarded annually to the student from Eastern Ontario (Counties of Dundas, Stormont, Glengarry, Grenville, Carleton, Russell, and Prescott) or from the city of Montreal, who, in the examinations of the First year of the medical course secures the highest academic standing. The Faculty of Medicine may, however, if they see fit, award this scholarship to the same student during the Third and Fourth years.

KEITH HUTCHISON MEMORIAL SCHOLARSHIPS.—In memory of the late Dr. Keith Hutchison, two scholarships have been established in the Faculty of Medicine. Their normal value is \$400 each per annum, but this is subject to adjustment at the Faculty's discretion in the light of the holder's financial needs. The scholarships are tenable in any year of the course and will be awarded on the basis of distinguished academic standing and financial need. The holder of a scholarship in any one session is eligible to re-apply for the following year. Applications in writing must reach the Secretary of the Faculty before June 30th.

CAMPBELL KEENAN MEMORIAL SCHOLARSHIP.—This scholarship, having a normal value of \$150 a year, has been established by Miss Charlotte Mildred Hagar in memory of the late Dr. Campbell B. Keenan. It is tenable in the Second, Third, or Fourth year of the course in Medicine and is awarded on the basis of distinguished academic standing and financial need. The award will be made to an applicant who has expressed the intention eventually of entering surgical practice. The holder of the scholarship in any one session is eligible to re-apply for a subsequent session. Applications in writing must reach the Secretary of the Faculty before June 30th.

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ROBERT SHARWOOD MEMORIAL SCHOLARSHIP.—In memory of the late Mr. Robert Sharwood a scholarship has been established in the Faculty of Medicine. Its normal value is \$400 per annum, but this is subject to adjustment at the Faculty's discretion in the light of the holder's financial needs. The scholarship is tenable in any year of the undergraduate course in Medicine and will be awarded on the basis of distinguished academic standing and financial need. The holder of the scholarship in any one session is eligible to re-apply for the following year.

SIMON AND ROSALIE HALPERN MEMORIAL SCHOLARSHIP.—This scholarship was endowed by the late Dr. Fanny G. Halpern in memory of her parents. It has a value of \$400 and is open annually to students of Roman Catholic or Jewish faith. The award will be made on the basis of distinguished academic standing and financial need. The holder of the scholarship in any one session is eligible to re-apply for the following year. Applications in writing must reach the Secretary of the Faculty before December 1st.

MORRIS BINZ SCHOLARSHIP.—From the bequest of the late Morris Binz, \$1,000 is set aside annually for scholarships in the Faculty of Medicine.

SIR EDWARD W. BEATTY MEMORIAL SCHOLARSHIPS FOR MEDICAL STUDENTS.—A fund of \$100,000 has been established under the will of the late Dr. Henry Albert Beatty, the income from which is to support two scholarships, not necessarily of equal value, to be awarded annually to students of either sex and of any nationality, who must be registered in the Faculty of Medicine as candidates for the M.D., C.M. degree or for one of the postgraduate Diplomas in a clinical specialty. The holder is expected to devote his year of tenure either to research or to some form of special training excluding the normal training toward the M.D., C.M. and excluding any of the years of residency training required in the Diploma courses. In the case of students who hold or are working towards the McGill M.D., C.M. the award may be held at any approved institution in Canada or abroad. For other qualified students the award must be held at McGill University. These scholarships will be awarded by the Faculty of Medicine. Awards will not be made unless suitable candidates present themselves. Applications should be made to the Secretary of the Faculty of Medicine on the forms provided for this purpose on or before February 1st of the year in which the scholarship is to commence.

SAVORY BURSARY.—This bursary of \$100 is tenable in the Second, Third, or Fourth year, without other restriction. Applications should be made to the Secretary of the Faculty before June 20th on forms obtainable from the Student Aid Office.

STUDENTS IN DENTISTRY

BRUCE SMITH BURSARY FUND.—This fund was set up by a bequest from the late Dr. Bruce Stewart Smith. It is "to assist poor but worthy medical students to complete medical training at McGill University." Application in writing should be made to the Secretary of the Faculty.

G. J. PICKLEMAN BURSARY.—This bursary of \$100 was established in 1956 by Mr. G. J. Pickleman and is available to undergraduate students in any year. It is awarded by the Scholarships Committee of the Faculty of Medicine on the basis of distinguished academic standing and financial need.

LOAN FUNDS

KELLOGG LOAN FUND.—Loans up to a maximum of \$500 in any one year may be granted to students in good standing who require such assistance from a fund given to the Faculty by the Kellogg Foundation. The regulations and the application forms are the same as for other loan funds controlled by the University. Application should be made to the Student Aid Officer.

BOSWELL JAMES LOAN FUND.—This fund was established in 1943 by Dr. A. Boswell James and is available to undergraduates and graduates. Application should be made to the Dean.

WESTON FAY VOLBERG JR. MEMORIAL LOAN FUND.—This fund was established in 1956 by classmates of the late Weston Fay Volberg, Jr., M.D., C.M. 1953, and is available to medical students.

GERTRUDE MUDGE MEMORIAL STUDENT AID FUND.—Established in September 1958 by donations from students, graduates, and staff in memory of the late Gertrude Mudge who was for many years Assistant Secretary of the Faculty of Medicine. Loans from this fund shall not exceed the tuition fees for the year. Application should be made to the Student Aid Officer.

OTHER LOAN FUNDS.—See page 632.

For awards open to Graduates in Medicine see pages 702, 707, 717, 719.

G. OPEN TO STUDENTS IN THE FACULTY OF DENTISTRY

For scholarships and bursaries open to undergraduates in all Faculties see page 623.

SCHOLARSHIPS

NATIONAL SCHOLARSHIPS (see page 613).

UNIVERSITY SCHOLARSHIPS (see page 623).

SCHOLARSHIPS

INTERNATIONAL COLLEGE OF DENTISTS (CANADIAN SECTION) SCHOLARSHIP.—

This scholarship of \$100 has been established by the International College of Dentists (Canadian Section) and is awarded annually by the Faculty of Dentistry to a student who has completed the Third year and is entering the Fourth year. The award is based on scholastic record in the Third year, general character, and participation in extra-curricular activities. No application is required.

CANADIAN DENTAL ASSOCIATION WAR MEMORIAL SCHOLARSHIP AWARD: First Prize \$125.00; Second Prize \$75.00. To be awarded annually.

The contest is open to all undergraduates of the final year who have been in attendance for at least two years at Canadian Dental Schools. The essay shall consist of 4,000 words.

Correspondence relative to this scholarship should be addressed to The Secretary, Canadian Dental Association, 234 St. George St., Toronto.

MEDALS AND PRIZES

MONTREAL DENTAL CLUB GOLD MEDAL.—Awarded to the student in the final year who stands first in the science and practice of Dentistry. The standing is determined not only by the written and practical examinations at the end of the year, but by the general work of the student during the four years.

COLLEGE OF DENTAL SURGEONS OF THE PROVINCE OF QUEBEC PRIZE.—The Kenneth Carver Prize of twenty-five dollars is awarded to the student, registered in Quebec, obtaining the highest standing in the practical examinations of the final year.

LIEUTENANT-GOVERNOR'S GOLD MEDAL.—Awarded to the student in the final year who stands second in the class. The standing is determined in a manner similar to that followed in the awarding of the Montreal Dental Club Gold Medal.

LIEUTENANT-GOVERNOR'S SILVER MEDAL.—Awarded to the student obtaining the highest marks in written and practical subjects in the Third year examinations.

MONTREAL ENDODONTIA SOCIETY BOOK PRIZE.—Awarded to the student in the final year showing the greatest aptitude in this subject.

AMERICAN SOCIETY OF DENTAL MEDICINE (MONTREAL SECTION) BOOK PRIZE.—Awarded to the student in the final year obtaining the highest standing in Dental Medicine.

STUDENTS IN DENTISTRY

MONTREAL DENTAL CLUB PRIZES.—First, Second, and Third year prizes in money given by the Montreal Dental Club and awarded to the students obtaining the highest standing in the following technique subjects: First year, Dental Anatomy; Second year, to be chosen each year; Third year, Orthodontia Technique.

MOUNT ROYAL DENTAL SOCIETY PRIZE.—A prize is awarded to the student obtaining the highest standing in the final examinations in the First year.

DORION PRIZES.—Second and Third year prizes offered by Dr. Eugene S. Dorion are awarded to the students obtaining the highest standing for an essay on Roentgenology.

DR. I. K. LOWRY PRIZES.—Prizes of medical dictionaries are awarded to the two students in the Second year who obtain the highest marks in Oral Histology and Embryology.

DR. M. J. T. DOHAN PRIZES IN PEDODONTICS.—A prize is awarded to the student in the Fourth year who achieves the highest standing in Practical and Clinical work during the year; another prize is awarded to the student in Third year who obtains the highest mark in the final written examination.

ANONYMOUS PRIZE.—A prize is awarded to the student in the Third year obtaining the highest standing in the final sessional examinations.

SOLOMON PRIZE.—A prize, in memory of the late Dr. Arthur S. Solomon, is awarded to the student who obtains the highest standing in the final examinations in the Second year. This prize is made possible by a donation from the Mount Royal Dental Society and the Alpha Omega Fraternity.

CANADIAN SOCIETY OF DENTISTRY FOR CHILDREN PRIZE.—A prize is awarded to the student in the final year obtaining the highest standing in didactic and clinical phases of Pedodontics.

CHESTER MACNAGHTEN PRIZES (see page 631).

J. M. RUTHERFORD MEMORIAL PRIZE (see page 631).

LOAN FUNDS

KELLOGG LOAN FUND.—A sum of money has been placed at the disposal of the Faculty of Dentistry by the Kellogg Foundation to assist dental students who have real financial need and are not eligible for assistance under other bursary and loan schemes. Applicants should consult the Dean of the Faculty of Dentistry.

SCHOLARSHIPS

W. R. AIRD LOAN FUND.—Established in 1952 for students in Dentistry. Applications should be made to the Dean.

COLLEGE OF DENTAL SURGEONS OF QUEBEC LOAN FUND.—Established in September 1958 by the College of Dental Surgeons of the Province of Quebec to aid students in the Second and upper years in the Faculty of Dentistry. Such students must be registered with the College of Dental Surgeons of the Province of Quebec and loans shall not exceed the tuition fees for the year. Application should be made to the Dean.

OTHER LOAN FUNDS.—See page 632.

H. OPEN TO STUDENTS IN THE FACULTY OF LAW

For scholarships and bursaries open to undergraduates in all Faculties see page 623.

SCHOLARSHIPS AND PRIZES

NATIONAL SCHOLARSHIPS (see page 613.)

UNIVERSITY SCHOLARSHIPS (see page 623.)

ALUMINUM COMPANY OF CANADA LIMITED SCHOLARSHIPS (see page 655).

CHIEF JUSTICE R. A. E. GREENSHIELDS MEMORIAL SCHOLARSHIPS.—These scholarships were founded by the will of the late Mrs. R. A. E. Greenshields in memory of her husband, the late Chief Justice Greenshields, D.C.L., LL.D., for many years professor of Criminal Law and Dean of the Faculty of Law. Two scholarships of the value of \$400 each are awarded annually to students entering the Faculty of Law and are renewable in each of the two upper years leading to the Bachelor of Civil Law degree, provided that the student's conduct is satisfactory and that he maintains at least a high Second Class standing, or in the opinion of the Faculty is for other reasons entitled to its renewal. Candidates must satisfy the regular requirements for admission to the Faculty, must have earned a scholastic standing of at least high Second Class, and preferably First Class at the University or Institution which they previously attended, and must furnish evidence of the necessity of financial assistance in order to be able to take up the study of law. Although fluency in both English and French is not essential, preference will normally be given to an applicant who has a good working knowledge of both languages. Application should be made to the Secretary of the Faculty.

THOMAS ALEXANDER ROWAT SCHOLARSHIP.—This scholarship of \$125 was founded by Mr. Donald McKenzie Rowat, N.P., in memory of his brother, Lieutenant Thomas Alexander Rowat, B.C.L., who was killed

in action at Lens, France, on the 28th June, 1917. It is awarded in alternate years for proficiency in the French language and in the old French law. Candidates must be British subjects of Anglo-Saxon origin.

MAURICE GOLDENBERG MEMORIAL SCHOLARSHIP.—This scholarship of \$100 in Government, Constitutional Law, or Public Administration has been established by Mr. H. Carl Goldenberg in memory of his father, the late Maurice Goldenberg. It is awarded annually by the University Scholarships Committee to the best candidate amongst those nominated by the Faculty of Arts and Science and the Faculty of Law. The scholarship is open to both men and women with no restriction as to race, creed, or colour.

ALEXANDER SCHOLARSHIP.—This scholarship of \$45 was established in 1950 under the will of the late Maurice Alexander, C.M.G., K.C., of London, England, as a token of esteem for the late Sir Charles Peers Davidson, former Professor of Criminal Law at McGill University. It is awarded annually to a student selected by the Faculty.

LYON W. JACOBS BURSARY.—This bursary was established in November 1957 by donations totalling \$500 from the son and daughters of Mr. Lyon W. Jacobs, Q.C., in honour of their father. This fund is to be used to provide an annual bursary of \$100 for a Second or Third year Law student who, in the opinion of the Faculty of Law, shows the most progress in his studies and is also in financial need.

MACDONALD TRAVELLING SCHOLARSHIP (see page 717).

CHARLES ALBERT NUTTING PRIZE.—Founded in 1930 by Miss Adelaide Nutting, M.A., R.N., in memory of her brother, Charles Albert Nutting, K.C., B.C.L., who graduated from the Faculty in 1872. The value of the prize is \$70. It is awarded to the student in the First or Second year submitting the best essay on a topic related to legal history, the topic to be fixed in advance by the Faculty.

CARSWELL PRIZES.—Two prizes of \$30 each in books were established in 1948 by the Carswell Company, Toronto, Ontario, and are awarded to First or Second year students at the discretion of the Faculty.

READING SOCIETY OF MONTREAL PRIZE.—A prize of \$50 established in 1952 by the Reading Society of Montreal to be awarded annually to the student who obtains the highest standing in the First year.

ALEXANDER MORRIS EXHIBITION.—This exhibition of the value of \$50, founded in memory of the late Hon. Alexander Morris, M.A., D.C.L., of Toronto, will be awarded to the student who obtains the highest standing in the Second year.

SCHOLARSHIPS

ADOLPHE MAILHIOT MEMORIAL PRIZE.—This prize established by Mr. and Mrs. J. N. Mailhiot, of Victoriaville, P.Q., in 1927, consists of a prize of law books to be given annually to a student selected by the Faculty.

MONTREAL BAR ASSOCIATION PRIZES.—The Montreal Bar Association offers a prize of \$50 to the student who obtains the highest standing in Civil Law in the final year and a prize of \$50 to the student who obtains the highest standing in Civil Procedure in the final year. The Junior Bar Association also offers a prize of \$15 to the student who obtains the best marks in Civil Procedure in the final year.

CHIEF JUSTICE GREENSHIELDS PRIZE.—This prize in Criminal Law endowed by Mrs. Greenshields in 1943 in memory of her husband, the late Chief Justice Robert Alfred Ernest Greenshields, is awarded to the member of the graduating class in Law having the highest standing in Criminal Law throughout the college course. The value of the prize is \$40.

JOHN E. CRANKSHAW PRIZE.—Established by friends of the late John E. Crankshaw, Q.C., formerly lecturer in Criminal Law at McGill University. The prize consists of an Advocate's Gown, a copy of the Annotated Criminal Code, and, revenue permitting, the year's Bar Fee. It is to be awarded to the student who has obtained the highest standing in Criminal Law subjects at McGill University and has passed his final examination for admission to the Bar of the Province of Quebec.

"I.M.E." PRIZE IN COMMERCIAL LAW.—A prize of \$70 in law books awarded annually to the member of the graduating class having the highest standing in Commercial Law throughout the course.

H. E. HERSCHORN PRIZE.—A prize of \$100 given annually by Mr. H. E. Herschorn, N.P., B.A. 1911, B.C.L. 1914, and awarded to the highest ranking graduating student who intends to enter the Notarial profession.

FACULTY ESSAY PRIZE.—A prize of \$50 is awarded annually to the student writing the best essay in public law in the Third year.

ARNOLD WAINWRIGHT PRIZE.—A prize of \$150 is awarded annually to the student writing the best essay in civil law in the Third year.

MAX CRESTOHL PRIZE.—A prize of \$40 was established in 1959 under the Will of the late Max Nathan Zion Crestohl, Q.C. It is awarded annually to the student who, in the opinion of the Faculty, has submitted the best written contribution to the McGill Law Journal.

CHESTER MACNAGHTEN PRIZES (see page 631).

J. M. RUTHERFORD MEMORIAL PRIZE (see page 631).

MEDALS

ELIZABETH TORRANCE GOLD MEDAL.—Founded in 1864 by Professor John Torrance in memory of his wife, this medal is awarded to the student who obtains the highest marks in the final examinations.

- I. BALLON MEMORIAL MEDAL.—This medal was established in 1955 by Mrs. I. Ballon in memory of her husband, the late Isidore Ballon, B.A. 1907. B.C.L. 1908, and is awarded annually to the most outstanding student on the Board of Editors of the McGill Law Journal.

No medals, prizes or scholarships will be awarded if, in the opinion of the Faculty, there is no candidate of sufficient merit.

LOAN FUNDS

- A. FLEMING LOAN FUND.—Established in 1954 by Mr. A. Fleming to aid students in the Faculty of Law. Application should be made to the Dean.

OTHER LOAN FUNDS.—For loan funds open to students in all faculties see page 632.

For awards open to Graduate Students see pages 707 and 717.

I. OPEN TO STUDENTS IN THE FACULTY OF MUSIC

UNIVERSITY SCHOLARSHIPS (see page 623).

SIR WILLIAM PETERSON MEMORIAL SCHOLARSHIPS.—Established in 1921 by the University and by friends, graduates and pupils of the Faculty of Music. The interest upon the original endowment of \$6,055 is used to support scholarships in Music as a memorial to the late Sir William Peterson. For further details consult the Secretary of the Faculty.

SIR WILLIAM MACDONALD MEMORIAL SCHOLARSHIPS.—Established in 1922 by the University. The interest upon the original endowment of \$6,000 is used to support scholarships in Music as a memorial to the late Sir William Macdonald. For further details consult the Secretary of the Faculty.

ELLEN BALLON PIANO SCHOLARSHIP.—Founded in 1928 by a gift of \$1,500 from Miss Ellen Ballon, a graduate of the Conservatorium. The principal has been increased by a further gift of \$1,500 from Miss Ballon. In making this award the Faculty takes into account the need as well as the ability of candidates.

RESSLER MEMORIAL SCHOLARSHIP.—Founded in 1950 by the late Mr. H. R. Ressler for violinists.

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MARION MAGOR SCHOLARSHIP.—Founded in 1953 by the family of the late Mrs. R. J. Magor for students entering the Second year of the Bachelor of Music course.

JULIUS BLOCK SCHOLARSHIP.—Founded in 1953 by Mr. J. Julius Block for pianists.

CUMMINGS FOUNDATION SCHOLARSHIP.—Founded in 1954 for pianists.

DONALDA PRIZE.—Founded by a gift of \$2,500 from Madame Pauline Donalda.

WILLIS PRIZE.—A prize of \$100 has been established by Willis & Co. Limited for piano students.

CONSTANCE HAMILTON MEMORIAL PRIZE.—A prize of \$100 has been established by Professor Helmut Blume for senior students preferably in the branch of School Music.

GLADYS GLASSCO MEMORIAL LOAN FUND.—A loan fund for students in the Faculty of Music, established in 1954 by Mr. Gordon B. Glassco in memory of his wife. Application should be made to the Secretary of the Faculty.

FONDATION LES AMIS DE L'ART BURSARY (see page 616).

UNIVERSITY BURSARIES.—Full time students studying for the Licentiate in Music or for the Bachelor of Music degree are eligible for University Bursaries. *For details see page 612.*

J. OPEN TO STUDENTS IN THE FACULTY OF DIVINITY

NATIONAL SCHOLARSHIPS (See page 613).

UNIVERSITY SCHOLARSHIPS (see page 623).

W. M. BIRKS AWARDS.—Three W. M. Birks awards are tenable by students in the Faculty of Divinity who are candidates for the B.D. degree. One of \$250 is awarded to an outstanding student entering the First year of the B.D. course, and two, valued each at \$100 are awarded to the students who take highest place in the First and Second years of the course, to be paid during the following session, provided the students are then enrolled as candidates for the B.D. degree. Application for the entrance scholarship must be received by the Dean of the Faculty of Divinity accompanied by a complete transcript of the candidate's academic record and three supporting letters of recommendation on or before June 1st.

STUDENTS IN AGRICULTURE

HEBREW TEACHING FELLOWSHIP.—This Fellowship of \$1,500 plus tuition fees in the Faculty of Graduate Studies and Research is available to candidates who are able to teach First year Hebrew (three hours) and who wish to pursue Graduate Studies in Divinity. Applications must be received by the Dean of the Faculty of Divinity, accompanied by a complete transcript of the candidate's academic record, and three supporting letters of recommendation, on or before June 1st. (*Not available for 1960-61.*)

SAMUEL FINLEY MEMORIAL BURSARY.—This bursary of \$100 is available to a student enrolled in the Faculty of Graduate Studies and Research who is pursuing advanced studies in Divinity. Application should be made to the Dean of the Faculty of Divinity on or before June 1st.

HOUSTON SCHOLARSHIP (see page 637).

W. M. BIRKS PRIZE.—A prize of \$50 in books awarded to the student who obtains the highest standing in the graduating year.

LOAN FUNDS.—See page 632.

Students of the Faculty of Divinity who are registered also in the Montreal Diocesan Theological College or in the United Theological College will be eligible for prizes, scholarships, and bursaries as announced in the calendars of these institutions.

K. OPEN TO STUDENTS IN MACDONALD COLLEGE

OPEN TO STUDENTS IN AGRICULTURE

NATIONAL SCHOLARSHIPS (see page 613).

UNIVERSITY SCHOLARSHIPS (see page 623).

FACULTY SCHOLARSHIPS AND BURSARIES.—The Faculty of Agriculture has a loan bursary fund for degree students in Agriculture and Household Science. For further particulars apply to the Registrar's Office, MacDonald College.

ELIZA M. JONES SCHOLARSHIPS.—Four scholarships have been established by a bequest of the late Frank P. Jones in memory of his mother. They are restricted to students who are entering the B.Sc.(Agr.) course for the first time. They have a minimum value of \$300 and a maximum value of \$500. Two are reserved for students who are entering the First year of the course and two for students entering the Third year of the course. Application forms may be obtained from the Registrar, and all applications must be made before September 1st. Candidates for First year scholarships are required to submit their complete high school record, their matriculation

SCHOLARSHIPS

or High School Leaving marks. Candidates for Third year scholarships are required to present records of their academic attainment for the first two years college work. In all cases the Registrar will ask for the recommendation from officers or faculty members of the school or college attended.

MACDONALD COLLEGE ALUMNI BURSARIES.—Two bursaries of \$200 each are offered by the Macdonald Branch of the McGill Graduates' Society. One bursary is open to a student entering the B.Sc.(Agr.) course, the B.Sc.(H.Ec.) course, or the B.Ed. course. The other bursary is open to students entering the Second year of one of these courses. The winner of the entrance bursary in First year will be considered along with other applicants for the Second year bursary. Application should be made to the Registrar's Office, Macdonald College, before September 1st, on forms provided.

QUEBEC WOMEN'S INSTITUTE BURSARY.—The Institute provides a bursary of \$100 to the student entering the Second year of the Diploma Course in Agriculture at Macdonald College, who—

- (1) is a professional farmer's son, or daughter, from the Province of Quebec.
- (2) has spent at least one season (seed time to harvest) in his father's employ on the farm,
- (3) intends to return to his father's farm for at least one year on completion of his course (or to manage his own farm),
- (4) and who, if more than one candidate presents himself as fulfilling the above three requirements, takes the highest proficiency in agricultural subjects in the First year or, if he is the only candidate, he obtains at least Class II standing in these subjects.

If no student can qualify for the above, this bursary will be made available as an entrance bursary to the First year of the Diploma Course.

JAMES RIST GORHAM SCHOLARSHIP.—A scholarship of \$100 established by the late W. M. Gammon in memory of his friend, James Rist Gorham, B.Sc. (Agr.), killed in action March 17th, 1942. The scholarship will be granted to the student in the General Agriculture option who ranks first in the final examinations of the Third year.

NOVA SCOTIA COLLEGE OF AGRICULTURE SCHOLARSHIP.—Macdonald College offers an entrance scholarship of \$600 to the student of the Nova Scotia College of Agriculture obtaining the highest standing in the work of the Second year of the degree course in that College and subsequently registers

STUDENTS IN AGRICULTURE

in the Third year of the degree course in Agriculture at Macdonald College. The scholarship will be paid in two instalments, half at the beginning of the Third year and half at the beginning of the Fourth year.

FISHER TRUST FUND.—In memory of the late Honourable Sydney A. Fisher, formerly Member of Parliament for Brome County and Minister of Agriculture, Canada, two agricultural scholarships of \$75 a year each tenable at Macdonald College for two years are offered, for the Diploma Course in Agriculture, on the following conditions:—

1. The candidates must be sons of farmers in the County of Brome, co-operating in farm activities during the period of their college course.
2. The candidates must be at least sixteen years of age.
3. The candidates must have passed at least grade IX of the High School course.
4. These scholarships will be continued from term to term only upon favourable reports from the Dean of the Faculty of Agriculture.

Applications must be sent, on or before the 1st of October, to the Chairman of the Fisher Trustees, R. F. Cowan, Mansonville, Que.

MORRIS W. WILSON MEMORIAL SCHOLARSHIPS (see page 614).

CANADIAN PACIFIC RAILWAY SCHOLARSHIPS (see page 617).

GENERAL MOTORS SCHOLARSHIPS (see page 615).

DISTRICT OF BEDFORD GRADUATES' SOCIETY SCHOLARSHIP (see page 620).

OTTAWA VALLEY GRADUATES' SOCIETY BURSARY (see page 616).

ST. FRANCIS DISTRICT GRADUATES' SOCIETY BURSARY (see page 620).

MONTREAL BRANCH, CANADIAN WOMEN'S PRESS CLUB SCHOLARSHIP IN JOURNALISM (see page 628).

CHRISTIE-STORER SCHOLARSHIP (see page 621).

ISABELLA C. MACRAE SCHOLARSHIP (see page 621).

LEONARD FOUNDATION SCHOLARSHIPS (see page 627).

KHAKI UNIVERSITY AND Y.M.C.A. MEMORIAL SCHOLARSHIP FUND (see page 627).

B'NAI B'RITH BURSARIES (see page 625).

FREDERICK SOUTHAM KER BURSARY (see page 626).

SCHOLARSHIPS

PRIZES AND MEDALS

ROBERT RAYNAULD PRIZES.—Four prizes are offered by Robert Raynauld, M.S.A. '28, publisher of *La Ferme*. Two prizes, of \$60 and \$40 respectively, are awarded to the students standing first and second in course Agronomy 442—Project. The decision is based on both written and oral presentation. Two prizes of \$60 and \$40 respectively are awarded to the students standing first and second in the examinations of the Third year of the Agronomy Option.

CHEMICAL INSTITUTE OF CANADA PRIZE.—The Chemical Institute of Canada offers a prize of books to the value of \$25 to the student in the Chemistry Option with the highest standing at the end of the Third year.

SOCIETY OF CHEMICAL INDUSTRY STUDENT PRIZES (see page 660).

LOCHHEAD MEMORIAL PRIZE.—In memory of her late husband, William Lochhead, B.A., M.Sc., the first Professor of Biology in Macdonald College, Mrs. Lochhead has established by an endowment of \$400, a prize to be awarded to the student, majoring in Entomology, who takes the highest standing in the Fourth year. The prize, in value equal to the proceeds of the endowment for one year, is in books selected by the winner with the approval of the Head of the Department of Entomology.

BORDEN COMPANY LIMITED PRIZE.—A prize of the value of \$200 is offered by the Borden Company Limited of Canada to encourage promising students who take a course of study of value to the dairy industry. The award will be made to a student on completion of his Third year, half payable at the beginning of the first term of the Fourth year, the balance at the beginning of the second term. The following factors will be considered in making the award: high standing in the subjects of his course during the Third year with emphasis on dairying, dairy chemistry, or dairy bacteriology; participation in student organizations and college activities; co-operation with students and staff in the advancement of the interests of the student body and the College as a whole.

I.O.D.E. PRIZE.—A prize of \$200 (\$100 for 2 years) is offered by the Provincial Chapter of the Imperial Order Daughters of the Empire to the British student taking the highest marks in the final examinations of the Second year.

CLASS OF 1953 BOOK PRIZE.—Graduates of the class of 1953 (Agriculture and Household Science) have established a fund, the proceeds of which are used to provide a prize in books for the student with the highest standing in all the courses of the Second year curriculum. The prize will be awarded in the B.Sc.(Agr.) course in odd-numbered years; in the B.Sc.(H.Ec.) course in even-numbered years.

STUDENTS IN AGRICULTURE

STEINBERG PRIZES.—Two prizes of \$100 each are awarded annually by Steinberg's Limited to students in the Third year of the B.Sc. (Agr.) course. One is awarded to the student ranking first in the Animal Husbandry option, and the other to the student ranking first in the Horticulture option.

GOVERNOR GENERAL'S MEDAL.—His Excellency the Governor General of Canada donates a bronze medal to be awarded to the student of the B.Sc. (Agr.) course who ranks highest in the graduating class.

LIEUTENANT-GOVERNOR'S MEDAL.—His Honor the Lieutenant-Governor of the Province of Quebec donates annually a gold medal, which is awarded to the student who ranks highest in the Third year of the B.Sc.(Agr.) course.

STERN CUP.—Sir Edward D. Stern, Fan Court, Chertsey, Surrey, England, has donated a silver challenge cup, which is held for one year by the student who makes the highest aggregate in Stock Judging in the final year of the subject.

CUTLER SHIELD.—Mr. Garnet H. Cutler, Professor of Agronomy, Purdue University, Lafayette, Indiana, the first lecturer in Cereal Husbandry, Macdonald College, has donated a bronze challenge shield, which is held for one year by the student majoring in Agronomy, who makes the highest aggregate in the final year.

CONKLIN TROPHY.—Dr. Raymond L. Conklin has donated a trophy to be held for one year by a student in any year of the B.Sc.(Agr.) course who has, in any one session, played on the College football team and in one other team sport and who, in the same year, has maintained high academic standing. The winner's name will be engraved on a shield on the trophy which will be awarded only once to any individual.

LA FERME PRIZE.—Robert Raynauld, M.S.A., Editor of *La Ferme* magazine, offers a prize of \$25 for competition among students of the Second year of the Diploma Course who come from farm homes and who intend to return to farming after graduation. The prize will be awarded to the eligible student who presents the best project.

LIEUTENANT-GOVERNOR'S MEDAL.—His Honour the Lieutenant-Governor of the Province of Quebec, gives annually a silver medal, which is awarded to the student who takes the highest percentage in General Proficiency in the First year of the Diploma Course.

MINISTER OF AGRICULTURE MEDALS.—The Honourable the Minister of Agriculture of the Province of Quebec offers annually two bronze medals in connection with the Diploma Course, Second year class, to be presented to the students ranking first in the Dairy Farming and in the Fruit Farming Groups respectively.

SCHOLARSHIPS

MACDONALD COLLEGE STUDENTS LOAN FUND.—Established in 1938 to assist needy students of the Faculty of Agriculture at Macdonald College. Applications should be made to the Dean.

OTHER LOAN FUNDS (see page 632).

OPEN TO STUDENTS IN THE SCHOOL OF HOUSEHOLD SCIENCE

NATIONAL SCHOLARSHIPS (see page 613).

UNIVERSITY SCHOLARSHIPS (see page 623).

FACULTY BURSARIES (see page 679).

MACDONALD COLLEGE ALUMNI BURSARIES (see page 680).

I.O.D.E. BURSARY.—The Imperial Order Daughters of the Empire offers a bursary of \$200 to a British student who has successfully completed the Second year of the B.Sc.(H.Ec.) course and has obtained satisfactory standing. The bursary is offered to aid a worthy student who is in need of financial assistance in order to complete her studies. It is payable in two equal instalments at the beginning of the Third and the Fourth years of the course. Other considerations being equal, preference will be given to a candidate from rural Quebec. Application must be made to the Registrar before September 1st, on forms supplied by the College.

MONTREAL HOME ECONOMICS ASSOCIATION BURSARY.—The Montreal Home Economics Association offers a bursary of \$150 open to a deserving student in one of the senior years of the B.Sc.(H.Ec.) course. Application should be made to the Registrar, Macdonald College, before October 1st.

DISTRICT OF BEDFORD GRADUATES' SOCIETY SCHOLARSHIP (see page 620)

ST. FRANCIS DISTRICT GRADUATES' SOCIETY BURSARY (see page 620).

GENERAL MOTORS SCHOLARSHIPS (see page 615).

MONTREAL BRANCH, CANADIAN WOMEN'S PRESS CLUB SCHOLARSHIP (see page 628).

OPEN TO ALL WOMEN STUDENTS

JANET MORISON ROBB BURSARY FOR WOMEN.—This bursary was established, by an endowment of \$2,000, by the late Honourable James A. Robb, formerly Member of Parliament for Chateauguay-Huntingdon and Minister of Finance, Canada, in memory of his deceased daughter, Janet Morison Robb, wife of Hugh Harvie Donald. The annual bursary will be the income from the endowment for one year. Preference will be

STUDENTS IN HOUSEHOLD SCIENCE

given to women students resident in either of the counties of Chateauguy-Huntingdon, or Beauharnois, who are daughters of widowed mothers of limited or moderate means, or daughters of widowers in similar financial circumstances, or daughters of disabled Canadian soldiers who have seen active service.

Candidates for this bursary are requested to make written application addressed to the Registrar's Office, Macdonald College, Que., *on or before 15th April*, giving full particulars of the grounds upon which their applications are based, and to provide letters from two responsible persons in support of their claims.

PRIZES AND MEDALS

GOVERNOR GENERAL'S MEDAL.—A bronze medal to be awarded to the student who ranks highest in the graduating class of the B.Sc.(H.Ec.) course.

LIEUTENANT-GOVERNOR'S MEDALS.—

(1) *A gold medal*, to be awarded to the student who ranks highest in the Third year of the B.Sc.(H.Ec.) Course.

(2) *A silver medal*, to be awarded to the student who ranks highest in the practice teaching option in the Fourth year of the B.Sc.(H.Ec.) Course.

HARRISON PRIZE.—A prize established by an endowment of \$300 under the will of the late Dr. F. C. Harrison, Principal of Macdonald College from 1910 until 1926; awarded to the student of the B.Sc.(H.Ec.) course who graduates with the highest standing.

CLASS OF 1953 BOOK PRIZE (see page 682).

HOME ECONOMICS CLUB PRIZE.—The Home Economics Club of Macdonald College offers a prize of \$25 to the student with the highest aggregate in Household Science subjects during her Second and Third years. The award will be made at the end of the Third year.

MRS. ALFRED WATT MEMORIAL PRIZE.—A Prize has been established by the Quebec Women's Institutes as a memorial to a distinguished Canadian, Mrs. Alfred Watt, M.B.E., who introduced the idea of Women's Institutes in England and Wales and was President of the Associated Country Women of the World from 1930 to 1947. This prize, valued at \$100 annually, is awarded to a student from rural Quebec in the Second, Third or Fourth year of the B.Sc. (H.Ec.) course who shows qualities of leadership and is worthy of financial encouragement to complete her course.

SCHOLARSHIPS

FREDERICA CAMPBELL MACFARLANE PRIZE.—A prize has been donated by the Quebec Women's Institutes in memory of the late Frederica Campbell Macfarlane, graduate in Institution Administration, 1912, Superintendent of Quebec Women's Institutes from 1913 to 1919. This prize of \$100, is open only to students from a rural district of the Province of Quebec, and is awarded on the results of the final examinations in any one of the first three years of the B.Sc. (H.Ec.) course.

L. OPEN TO STUDENTS IN THE INSTITUTE OF EDUCATION

SCHOLARSHIPS AND BURSARIES

NATIONAL SCHOLARSHIPS (see page 613).

UNIVERSITY ENTRANCE SCHOLARSHIPS (see page 613).

J. W. MCCONNELL MEMORIAL SCHOLARSHIPS (see page 614).

MORRIS W. WILSON MEMORIAL SCHOLARSHIPS (see page 614.)

GENERAL MOTORS SCHOLARSHIPS (see page 615).

OTHER ENTRANCE SCHOLARSHIPS (see page 612 to 623).

I.O.D.E. BURSARIES.—The Municipal Chapter I.O.D.E. offers two bursaries, one of \$350 and one of \$200, tenable in the Institute of Education, Macdonald College. The awards are made by a committee of the Municipal Chapter on the basis of scholarship and need. Applications are to be sent to the Educational Secretary, The Municipal Chapter of Montreal, I.O.D.E., 4112 Western Ave., Westmount, Quebec.

VERDUN WOMEN'S CLUB HARRIET MORRIS MEMORIAL BURSARY.—This bursary of \$100 is tenable for one year and is awarded annually by the Verdun Women's Club in memory of the co-founder of the Club, Harriet Morris, to a woman student who has completed Grade XI in the Verdun High School and who plans to enter the Macdonald College Institute of Education. The award is based on academic record, character, and financial need.

SARAH EMMA HILL SCHOLARSHIP.—The Sarah Emma Hill Scholarship, endowed by the late Mrs. Sarah Emma Hill, of Stanstead, Que., of the present value of about \$100, will be awarded each year to a student in the Institute of Education "where assistance is required,—this money to be used by the Trustees of Macdonald College according to their best judgment." Candidates for this scholarship are requested to make written application to the Director of the Institute of Education, on or before September 30th, giving full particulars of the grounds upon which their applications are based, and to provide letters supporting their claims from two responsible

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persons. In making the award, consideration will be given to scholarship and professional ability as indicated by the standing at the end of the autumn term.

ELLA BRYSON SCHOLARSHIP.—This scholarship was bequeathed by the late Miss Ella Bryson of Fort Coulonge, Que., to the Women's Institute of Fort Coulonge. The scholarship is divided among students from Pontiac County who successfully complete their course in the Institute of Education. Applications must be submitted to the Director, Institute of Education, before May 1st.

MACDONALD TEACHERS' ALUMNI ASSOCIATION SCHOLARSHIP.—This scholarship is awarded to the person deemed to be the best all round student. Selection of the winner is made by the Director of the Institute of Education and the President of the Alumni Association. The scholarship *must* be used to further the winner's educational studies, and will be held in trust for the winner for a period of not more than five years. When circumstances permit, two scholarships will be offered in the same year.

ESTELLA HOLMES SCHOLARSHIP.—The Women's Institute of Stanstead County offers a scholarship of \$100 to a student from Stanstead County who is entering the Institute of Education. Applications should be sent, not later than August 15th to Mrs. R. G. Conner, County Secretary, Stanstead Women's Institute, North Hatley, Que.

JANET MORISON ROBB BURSARY FOR WOMEN.—Open to all women students (see page 684).

DU PONT COMPANY OF CANADA (1956) LIMITED SCHOLARSHIP.—This scholarship of \$1,500 is awarded to a graduate in an honours course in science or in a course in which science or mathematics has been a major subject, intending to prepare for science teaching in secondary schools. The scholarship is increased by \$600 if the student is a married man. Application should be made to the Director, Institute of Education, before May 1st.

NORTH AMERICAN CYANAMID LIMITED SCHOLARSHIP.—This scholarship of \$1,500 is awarded to a graduate in an honours course in science or in a course in which science has been a major subject, intending to prepare for science teaching in secondary schools. Application should be made to the Director, Institute of Education, before May 1st.

DAVID C. LOGAN MEMORIAL SCHOLARSHIP.—This scholarship of \$100 is available to students of Grade XII entering the Institute of Education and to students now completing their freshman year in the Institute of Education. Application should be made by June 15th to Miss Grace D. Findlay, Secretary, Adminstrating Committee, 3980 Cavendish Blvd., Apt. 31. Montreal 28, Quebec.

SCHOLARSHIPS

PAPINEAU COUNTY SCHOLARSHIP.—Two scholarships of \$200 and \$300 respectively are available to students obtaining 60% in Grade XI at Buckingham High School or 70% and taking Senior Matriculation in a recognized institution. Applications in writing should be made to the Secretary-Treasurer, Papineau County Protestant Central School Board, Box 850, Buckingham, Quebec.

W. E. DUNTON MEMORIAL SCHOLARSHIP.—A scholarship of \$300 is awarded annually to a student in the Greater Montreal Board area. The holder must teach in Board schools for two years after graduation. Applications should be made to the Protestant School Board of Greater Montreal, 3460 McTavish St., Montreal.

CHAMBLY COUNTY TEACHERS' ASSOCIATION SCHOLARSHIP.—The Chambly County Teachers' Association will award a scholarship of \$100 annually to a graduate of Chambly County High School entering the Institute of Education. This scholarship will be awarded on the basis of scholarship, leadership, personality and character, punctuality, and financial need, where other factors are equal. Application should be made to the President of the Chambly County Teachers' Association by June 25th.

PROVINCIAL GOVERNMENT BURSARIES.—Provincial Government Bursaries of \$200 each are offered to students with satisfactory standing in need of financial assistance. Application must be made on forms supplied either by the Department of Education or the Director of the Institute of Education, and must be submitted to the Director of Protestant Education before September 1st.

PROTESTANT SCHOOL BOARD OF GREATER MONTREAL BURSARIES.—The Protestant School Board of Greater Montreal offers a number of bursaries to the graduates of schools under its jurisdiction. Application should be made to the Director of Education, Protestant School Board of Greater Montreal, 3460 McTavish St., Montreal 1.

PROVINCIAL ASSOCIATION OF PROTESTANT TEACHERS BURSARIES.—The Provincial Association of Protestant Teachers offers a number of bursaries on the basis of scholarship and need. Applications should be made to the Executive Director, Provincial Association of Protestant Teachers, 1410 Guy St., Montreal 25, Quebec.

KAY KERRY CHAPTER I.O.D.E. BURSARY.—The Kay Kerry Chapter, I.O.D.E., offers an annual bursary of \$200 to the student in the Institute of Education resident in the towns of Pointe Claire or Beaconsfield. The holder may be registered in any of the degree or diploma courses and the bursary is renewable. Application should be made to the Chairman, Bursary Committee, Kay Kerry Chapter, I.O.D.E., Pointe Claire, Quebec, not later than June 1st.

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MONTREAL DAY NURSERY SCHOLARSHIP.—A scholarship of \$500, payable in four instalments, is offered by the Montreal Day Nursery to a student wishing to specialize in nursery school teaching. The student will register in the Bachelor of Education course, following the Kindergarten Specialist curriculum during the first two years, specializing in early childhood education during the final two years of the course. Application should be made to the Director, Institute of Education.

KIWANIS CLUB OF DORION-VAUDREUIL BURSARY.—The Kiwanis Club of Dorion-Vaudreuil offers a bursary of \$150, tenable by a student in the Institute of Education residing in the counties of Vaudreuil-Soulanges and that part of the county of Jacques Cartier of Riviere des Prairies and west of the eastern boundary of Pointe Claire. Application should be addressed to the Director, Institute of Education, before September 1st of each year.

FEDERATION OF PROTESTANT WOMEN TEACHERS OF GREATER MONTREAL BURSARIES.—The Federation of Protestant Women Teachers of Greater Montreal offers a number of bursaries tenable in the Institute of Education. These bursaries are open to worthy girls from low or middle income families who would find it difficult otherwise to take a two-year Second Class Diploma course or to enter the degree course in Education. Applications should be made to the Federation of Protestant Women Teachers by May 2nd.

ZONTA BURSARY.—This bursary of \$150 may be regarded as a loan and paid back by the student if desired. Applications should be made to Miss Annie S. D. Gray, 218 Metcalfe Ave., Westmount, Quebec.

DISTRICT OF BEDFORD TEACHERS' ASSOCIATION BURSARY.—The District of Bedford Teachers' Association will award a bursary of \$75 annually to a deserving graduate of Bedford, Cowansville, Granby, or Waterloo High Schools entering the Institute of Education. Applications should be made to Miss C. Elizabeth Griffin, P.O. Box 428, Waterloo, Quebec.

MACDONALD COLLEGE ALUMNI BURSARIES (see page 680).

A. S. LAMB SCHOLARSHIPS.—These scholarships, endowed by friends of Dr. Arthur S. Lamb, formerly Director of the School of Physical Education and of the University Department of Athletics, Physical Education, and Recreation, as a tribute to his work in these fields, were offered for the first time in 1951. There are two scholarships of \$100 each tenable, one by a man and one by a woman, in the final year of the Bachelor of Education in Physical Education course. They are awarded by a small committee who will take into account both the academic record and the personal qualities of the students eligible. No applications for these scholarships are necessary.

SCHOLARSHIPS

In addition to the above two scholarships, one A. S. Lamb scholarship of \$100 is open to any student who, having completed at least one year of the undergraduate course, is proceeding from First into Second year, or from Second into Third year. This scholarship will be awarded by the same Committee, on the basis of scholastic ability, personal qualities and financial need. No application is necessary.

PRIZES AND MEDALS

LIEUTENANT-GOVERNOR'S GOLD MEDAL.—Awarded to the student standing highest among those graduating with Great Distinction in the B.Ed. course.

GOVERNOR-GENERAL'S BRONZE MEDAL.—Presented by His Excellency the Governor-General of Canada. Awarded to the teacher-in-training with the highest standing in the Art of Teaching.

ETHEL WALKEM JOSEPH PRIZE.—The Wolfe and Montcalm Chapter of the Imperial Order Daughters of the Empire has endowed an annual prize of \$25 in the First Class Diploma course as a tribute to the late Mrs. Henry Joseph, Regent of the Chapter.

PROTESTANT HIGH SCHOOL WOMEN TEACHERS ASSOCIATION OF GREATER MONTREAL PRIZE.—A prize of \$100 awarded to the woman student attaining the highest standing in the First Class Diploma course.

GOLD MEDAL.—A gold medal is awarded to the student demonstrating the highest general proficiency throughout the B.Ed.(P.E.) course.

LIEUTENANT-GOVERNOR'S GOLD MEDAL.—This medal is awarded to the student with the highest standing in the sessional examinations in the B.Ed. (P.E.) course.

GARDNER KNEELAND MEMORIAL PRIZE IN ENGLISH.—Established by an endowment of \$200, by the late Professor A. W. Kneeland, M.A., B.C.L., in memory of his father. Awarded to the teacher-in-training with the highest standing in English.

A. KIRK CAMERON PRIZE IN PRIMARY METHODS.—Presented by A. Kirk Cameron, a member of the Council of Education. Awarded to the teacher-in-training with the highest standing in Primary Methods.

DR. S. P. ROBINS MEMORIAL PRIZE.—Established by an endowment of \$500, by Miss Lilian B. Robins, B.A., former lecturer in Mathematics, School for Teachers, Macdonald College, in memory of her father, who was first Professor of Mathematics, 1857 and, later, Principal of McGill Normal School, Montreal, until 1907. The income from the endowment for one year will be awarded to the student who obtains a diploma, and is the

STUDENTS IN INSTITUTE OF EDUCATION

most deserving student from the point of view of personality, professional attainments, and home circumstances.

R. D. A. TEACHERS' ASSOCIATION PRIZE.—A prize in books offered by the Richmond-Drummond-Arthabaska Protestant Teachers' Association to the teacher-in-training from the R.D.A. area with the highest academic standing.

Note:—Prizes are awarded only to students who obtain diplomas in the specified class.

KINDERGARTEN CLASS

CANON SCOTT CHAPTER, I.O.D.E., PRIZE.—Awarded to the teacher-in-training with the highest aggregate in the Kindergarten Class.

SECOND CLASS DIPLOMA

SUPERINTENDENT OF EDUCATION'S MEDAL.—Awarded to the teacher-in-training with the highest aggregate in the Second Class Diploma course.

LIEUTENANT-GOVERNOR'S GOLD MEDAL IN MATHEMATICS.—Presented by His Honour the Lieutenant-Governor of the Province of Quebec. Awarded to the teacher-in-training in the Sophomore Class with the highest standing in Mathematics.

LIEUTENANT-GOVERNOR'S SILVER MEDAL IN MATHEMATICS.—Presented by His Honour the Lieutenant-Governor of the Province of Quebec. Awarded to the teacher-in-training in the Freshman Class of the Second Class Diploma course with the highest standing in Mathematics.

J. C. WILSON PRIZE.—Awarded to the teacher-in-training with the highest aggregate in the Second Class Diploma course.

DIRECTOR OF PROTESTANT EDUCATION PRIZE.—Awarded to the teacher-in-training with the second highest aggregate in the Second Class Diploma course.

DIRECTOR OF PROTESTANT EDUCATION PRIZE IN FRENCH.—Awarded to the teacher-in-training in the Second Class Diploma course with the highest standing in French.

LE COMITÉ DE L'ALLIANCE FRANÇAISE DE MONTRÉAL SILVER MEDAL.—Awarded to the teacher-in-training in the Second Class Diploma course with the highest standing in the First year general French course.

BISHOP OF MONTREAL PRIZE IN SCRIPTURE.—Awarded to the teacher-in-training in the Second Class Diploma course with the highest standing in Scripture.

SCHOLARSHIPS

FEDERATION OF PROTESTANT WOMEN TEACHERS OF MONTREAL PRIZE.—Awarded to the teacher-in-training in the Second Class Diploma course with the highest standing in History and Geography.

MILTON HERSEY PRIZE IN SCIENCE.—Established by an endowment of \$250 by Milton L. Hersey, M.A.Sc., LL.D., formerly a member of the Council of Education. Awarded to the teacher-in-training in the Second Class Diploma course with the highest standing in Science.

HONOURABLE JACOB NICOL PRIZE.—Presented by the Honourable Jacob Nicol, Q.C., M.L.C., D.C.L., formerly a member of the Council of Education. Awarded to the teacher-in-training with the second highest aggregate in the Freshman class of the Second Class Diploma course.

THIRD CLASS DIPLOMA

J. C. WILSON PRIZE.—Awarded to the teacher-in-training with the highest aggregate in the Third Class Diploma course.

LE COMITÉ DE L'ALLIANCE FRANÇAISE DE MONTRÉAL BRONZE MEDAL.—Awarded to the teacher-in-training in the Third Class Diploma course with the highest standing in general French.

BISHOP OF MONTREAL PRIZE IN SCRIPTURE.—Awarded to the teacher-in-training in the Third Class Diploma course with the highest standing in Scripture.

MILTON HERSEY PRIZE IN SCIENCE.—Established by an endowment of \$250 by Milton L. Hersey, M.A.Sc., LL.D., formerly a member of the Council of Education. Awarded to the teacher-in-training in the Third Class Diploma course with the highest standing in Science.

LOAN FUNDS

STUDENT TEACHERS' SOCIETY LOAN FUND.—Established in 1954 by a donation from the Student Teachers' Society to assist students who are registered in the Institute of Education. Applications should be made to the Director, Institute of Education, Macdonald College.

ST. GEORGE'S LODGE NO. 10 A.F. & A.M. LOAN FUND.—Established in 1955 by a donation of \$500 to assist students of the Institute of Education. Applications should be made to the Director, Institute of Education, Macdonald College.

STANSTEAD COUNTY CENTRAL SCHOOL BOARD LOAN FUND.—The Protestant Central School Board of Stanstead County offers a loan of \$500 available to students in the final year of the Bachelor of Education course or to students completing the requirements of Second or Third Class Diplomas.

The student is required to repay the loan in monthly instalments over a one or two year period and remain in the employ of the Stanstead School Board until the loan is repaid. Applications should be made to the Stanstead County Central School Board, Princess Elizabeth High School, Magog, Quebec.

PROTESTANT SCHOOL BOARD OF GREATER MONTREAL LOAN FUND.—The Protestant School Board of Greater Montreal makes loans available to students intending to enter the service of the Board. Application should be made to the Director of Education, Protestant School Board of Greater Montreal, 3460 McTavish St., Montreal.

PROVINCIAL ASSOCIATION OF PROTESTANT TEACHERS LOAN FUND.—The Provincial Association of Protestant Teachers offers loans of not more than \$300 per annum. Priority is given to students applying for the first time and to those not eligible for other bursaries. Loans are repayable when the student begins teaching. Application should be made to the Student Loan Committee, P.A.P.T., 1526 St. Mark St., Montreal.

IV. GRADUATE FELLOWSHIPS AND SCHOLARSHIPS

For scholarships and bursaries open to students in all Faculties see page 623.

DEMONSTRATORSHIPS AND INSTRUCTORSHIPS.—In several departments graduate students are eligible for demonstratorships and instructorships. Information concerning these may be obtained from the Chairman of the Department concerned.

FELLOWSHIPS AND SCHOLARSHIPS.—The following list of graduate awards is divided into three sections: A, tenable during graduate study at McGill University only; B, tenable either at McGill University or elsewhere; C, a partial list of travelling fellowships and scholarships for which graduates of McGill University may be eligible. In each of these sections the awards are listed in alphabetical order of the undergraduate faculties from which applicants may have proceeded. In Section D are collected the names of awards for which graduates of other universities who wish to pursue advanced studies at McGill may be eligible. It is to be noted that not all awards listed are open for competition each year; further, an award which is open for competition may not be granted if none of the applications is considered meritorious.

Applications for fellowships and scholarships should be made by letter, except in the cases where they are to be directed to the Dean of the Graduate Faculty who will supply application forms; applicants should simultaneously apply for admission to the Faculty, unless this has been previously granted.

SCHOLARSHIPS

A. FELLOWSHIPS AND SCHOLARSHIPS TENABLE AT

McGILL UNIVERSITY ONLY

(See also Section B)

OPEN TO GRADUATES IN TWO OR MORE FACULTIES

ALLIED CHEMICAL FELLOWSHIP IN CELLULOSE CHEMISTRY.—This fellowship of \$1,500 and tuition fees for an unmarried man and \$2,000 and tuition fees for a married man is tenable by a graduate student in Chemistry, preferably Cellulose Chemistry, normally in the Third year of the Ph.D. course. The Department of Chemistry nominates the recipient.

ALUMINIUM LABORATORIES LIMITED FELLOWSHIP.—This award of \$1,600 (eleven months) or \$1,100 (eight months) plus fees, plus a grant to the Department for research expenses, is open to graduates of any university who have been admitted to McGill as resident candidates for a Master's or Doctor's degree in Physical Metallurgy and related subjects, and is renewable. Applications should reach the Dean of the Graduate Faculty before February 1st.

AMERICAN VISCOSE CORPORATION FELLOWSHIP IN CELLULOSE CHEMISTRY.—This fellowship of \$2,000 per annum may be granted to a graduate of any recognized university who is a British or American subject and is to carry out research on esters or ethers of cellulose in the Division of Industrial and Cellulose Chemistry, located in the Pulp and Paper Research Institute. Applications should be sent to Professor C. B. Purves not later than February 1st.

CELANESE FELLOWSHIP.—The Celanese Corporation of America has offered this Fellowship to a graduate student planning to make his career on this continent, and carrying out thesis research in the Division of Industrial and Cellulose Chemistry on a topic connected with the chemical reactivity of cellulose as influenced by heat and other pre-treatments. The stipend for one year is \$1,500 and an additional sum of \$700 is provided to defray university fees and the cost of supplies and equipment. Applications should be addressed to the Department of Chemistry.

C-I-L FELLOWSHIPS.—Two postgraduate fellowships in Chemistry, each of the value of \$2,000, each with an additional grant of \$400 for research expenses, and tenable in the Department of Chemistry were established in 1941 by Canadian Industries Limited. These fellowships are known as the C-I-L Fellowships and are open to university graduates who are Canadian citizens or to university graduates who are intending to follow

a career in Canada. Preference is given to Canadian citizens. Normally the fellowships will be tenable for one year only, but in special cases they may be renewed for a second year. Application should be made in writing to the Chairman of the Department of Chemistry not later than February 1st.

J. B. COLLIP FELLOWSHIPS IN MEDICAL RESEARCH.—Up to three fellowships of \$3,000 each are awarded for study at McGill in Anatomy, Bacteriology, Biochemistry, Histology, Pathology, Pharmacology, or Physiology. Candidates must hold the M.Sc. or Ph.D. in one of these subjects, or a degree in medicine, from a recognized university. Graduates of the McGill medical faculty may be permitted to hold the fellowship at an approved institution elsewhere. Application should be made before February 1st to the Secretary of the Faculty of Medicine, from whom application forms and further particulars may be obtained.

COMINCO FELLOWSHIP.—The Consolidated Mining and Smelting Company of Canada, Limited, offers annually a fellowship of \$1,000 for research in some field of pure or applied science preferably related to the mining, metallurgical, or chemical industry; an additional grant up to \$500 may be made for research expenses or for continuance of the investigation. The fellowship is open to graduates of any approved university, in Science, Engineering or Agriculture, who will normally be proceeding towards a higher degree at McGill. Canadian applicants are preferred. The topic of research will be selected in consultation with the donors and with the Dean of the Faculty of Graduate Studies, to whom application should be made not later than February 1st.

COMMUNITY PLANNING FELLOWSHIPS.—Fellowships of \$1,500 will probably be available for Canadian graduates of any approved university who are seeking a McGill Master's degree in Geography, Architecture, Economics, Civil Engineering, Law, Political Science, or Sociology, and who are prepared to participate in the programme of research and study in community planning that is sponsored by these departments. These fellowships are granted by Central Mortgage and Housing, Ottawa, to whom enquiries should be addressed.

GOTTESMAN SCHOLARSHIP.—The D. S. and R. H. Gottesman Foundation offers a scholarship of \$1,500 per year for research in any field of science or engineering on a topic of interest to the pulp and paper industry. The candidate must be an American, a Canadian, or a citizen of the British Commonwealth, and a graduate of a recognized university. He will be expected to register at McGill as a candidate for a higher degree. The award is made by the Education Committee of the Pulp and Paper Research Institute and applications should be addressed to the Chairman of that Committee not later than May 1st.

SCHOLARSHIPS

HAROLD H. HELM FELLOWSHIPS.—These fellowships are restricted to men who hold a Bachelor's degree from Princeton University and are tenable in any Department of the Graduate Faculty, or in a professional Faculty at McGill. Their value is \$1,400 to \$1,800, plus fees, plus an additional grant if studies are continued during the summer. Letters of application should reach the Dean of the Graduate Faculty at McGill by February 1st.

HAROLD HIBBERT MEMORIAL FELLOWSHIP.—This fellowship, the value of which is approximately \$4,000, is open to candidates who hold a Ph.D. in Chemistry from an approved university or have equivalent qualifications, and is tenable for one calendar year in the Department of Chemistry at McGill University, where the holder is expected to devote his full time to research. It is not renewable. Letters of application should reach the Dean of the Graduate Faculty by February 1st.

WILLIAM HENRY HOWARD SCHOLARSHIPS (see page 655).

T. STERRY HUNT RESEARCH SCHOLARSHIP IN CHEMISTRY.—This scholarship of the value of \$600 is open to graduates in Chemistry and Chemical Engineering who have completed the course for the degree of M.Sc., M.Eng. or Ph.D. and have shown high capacity for research. The holder is to assist in the Department as a demonstrator. No application is required.

LEROY MEMORIAL FELLOWSHIP IN GEOLOGY.—This fellowship of \$700, established by some friends of Captain O. E. LeRoy (Arts, 1895), who was killed in the battle of Passchendaele, in October, 1917, may be awarded annually to a student who desires to proceed with postgraduate studies in Geology at McGill University. The recipient may be called upon to assist in the teaching work of the Department. The award is made by the Chairman of the Department of Geological Sciences in consultation with the Principal.

ALEXANDER MCFEE FELLOWSHIP.—This fellowship of \$1,750 is open to graduates of any approved university who are resident full-time candidates for higher degrees or diplomas at McGill. The award will be made in 1960 in Chemistry, in 1961 in Medical Sciences (with preference for Cancer research), in 1962 in Physics and so on in rotation. Application should reach the Dean of the Graduate Faculty before February 1st.

SIR VINCENT MEREDITH FELLOWSHIP IN AGRICULTURAL ECONOMICS.—This fellowship of \$2,500 per year is tenable for a two-year period. Candidates must qualify for admission to graduate work in Economics at the Ph.D. level and will be required to pursue research or thesis work on an approved subject in the area of Agricultural Economics. Limited teaching or other duties attach to the tenure of this Fellowship. Inquiries and applications should be addressed to the Department of Agricultural Economics, Macdonald College, prior to March 15th.

GRADUATE STUDENTS

MIRON FELLOWSHIP IN CONCRETE STUDIES.—This fellowship has been established by Miron & Freres Limited for advanced studies in some phase of the concrete industry in the Department of Civil Engineering. This fellowship has an annual value of \$900 plus an additional \$300 to the University to be used in the best interests of the investigation. Applicants must be Canadian citizens, normally resident in Canada or those who have taken steps to become Canadian citizens, and graduates in science or engineering of a recognized university. Applications should be made to the Dean of the Graduate Faculty.

PROVINCE OF QUEBEC SCIENTIFIC RESEARCH BUREAU FELLOWSHIPS.—The Bureau grants fellowships, normally of \$1,000 annually, to graduate students who have bona-fide domicile in the Province and are pursuing researches, in any branch of science, which may lead to contributions to the welfare of the Province and the development of its industries. For further particulars consult the Dean of the Faculty of Graduate Studies and Research, before May 1st.

SPRUCE FALLS POWER AND PAPER COMPANY LIMITED FELLOWSHIP IN PULP AND PAPER RESEARCH.—This Fellowship of \$1,800 sponsored by the Spruce Falls Power and Paper Corporation, Limited, is open to Canadians, or landed immigrants from Commonwealth countries, who are graduates of any approved University and who wish to proceed to a higher degree in any branch of chemistry or engineering or physical science, provided that the proposed research topic is agreed to be relevant by the Pulp and Paper Research Institute. Application should reach the Dean of the Graduate Faculty before February 1st.

SHELL OIL FELLOWSHIP.—This fellowship of \$1,200 is offered to a graduate of any approved university proceeding towards a Master's degree or Ph.D. at McGill in one of the following fields: Chemistry, Chemical Engineering, Mechanical or Petroleum Engineering, Geology, Physics, Geophysics. Application should be made to the Dean of the Graduate Faculty not later than February 1st.

SOLVAY FELLOWSHIP.—This fellowship of the annual value of \$1,200 plus tuition fees is offered for the first year of study in the Faculty of Graduate Studies and Research. The award is tenable in any Department of the Faculty, and is open to men and women equally. The holder must have graduated in an undergraduate Faculty of McGill University in the session prior to that for which the award is given, and must obtain permission to proceed to graduate study. No teaching duties are required of the holder, who may not hold any other fellowship or bursary, nor receive a salary for teaching or other duties, during his tenure. Applications for this fellowship must be made to the office of the Dean of the Graduate Faculty on or before February 1st in each year.

SCHOLARSHIPS

UNIVERSITY BURSARIES (see page 612).

UNION CARBIDE (PULP AND PAPER RESEARCH INSTITUTE) FELLOWSHIP.—This fellowship of \$1,500 (single) or \$2,100 (married) plus tuition fees and research expenses may be awarded to a Ph.D. candidate in Chemistry who will be, and has been for at least one year, identified in his research and training programme with the work of the Pulp and Paper Research Institute. The award is made by the Institute. No application is required.

VARIAN ASSOCIATES OF CANADA LIMITED FELLOWSHIP.—This fellowship of \$2,400 for twelve months is open to any Ph.D. candidate in the Department of Physics at McGill University. The purpose of the fellowship is the encouragement of research into those subjects of pure physics which might contribute to the understanding of physical electronics. Applications for this fellowship must be made to the Chairman of the Department of Physics on or before February 1st of each year.

HARRISON WATSON SCHOLARSHIP.—Established in August 1953 by a bequest from the late Harrison Watson and Ruth Appleton Watson in memory of their only son, Captain Aubrey Wentworth Harrison Watson, D.S.O., M.C. This scholarship of not less than \$1,500 is open to men and women graduates of an approved Faculty of Medicine or the holders of M.Sc. or Ph.D. degrees or approved candidates for Ph.D. degrees at McGill University who have completed one year of research and study toward their degrees. The scholarship is open to candidates who have spent at least one year in postgraduate training. Awards of higher value may be made to candidates with higher qualifications. The scholarship may be renewed for two additional years. Preference will be given to McGill graduates. The purpose of the scholarship is the encouragement of research into the causes and cure of tuberculosis and other diseases of an allied character. The scholarship is tenable only at McGill unless the scholar is a graduate in Medicine of McGill University in which case the work of the scholarship may be undertaken at McGill or at an approved institution elsewhere. The successful candidate is required to devote his full time for at least ten consecutive months to the object of the award. Application forms may be obtained from the Secretary of the Faculty of Medicine and must be submitted not later than February 1st.

OPEN TO GRADUATES IN AGRICULTURE ONLY

WALTER M. STEWART SCHOLARSHIPS IN AGRICULTURE.—Two scholarships of \$1,000 each are offered annually, one to graduates of the Institut Agricole d'Oka, and one to graduates of l'Ecole Supérieure d'Agriculture at Ste. Anne de la Pocatière, to assist students from these institutions in pursuing postgraduate studies at Macdonald College. To be eligible, candidates

GRADUATE STUDENTS

must not be in receipt of other scholarships, fellowships or assistantships with a value exceeding \$1,000 for the year. Applications for these scholarships must be made through the Directors of the two colleges concerned.

C-I-L FELLOWSHIP IN AGRICULTURE.—A postgraduate fellowship in Agriculture for research related to the agricultural chemicals industry, of the value of \$2,000, with an additional grant of \$400 for research expenses and tenable at Macdonald College by students proceeding to a Ph.D. degree is offered by Canadian Industries Limited to university graduates who are Canadian citizens or to university graduates who are intending to follow a career in Canada. Preference is given to Canadian citizens. Normally the fellowship will be tenable for one year only, but in special cases may be renewed for a second year. Upon completion of the year's work, a written report outlining work performed under the fellowship or a copy of the thesis prepared for his degree shall be submitted by the fellow to Canadian Industries Limited. Applications, addressed to the Registrar of Macdonald College, must be made before May 15th each year.

COMINCO FELLOWSHIP (see page 695).

OPEN TO GRADUATES IN ARTS AND SCIENCE ONLY

BRONFMAN FELLOWSHIPS IN COMMERCE AND ECONOMICS.—The Graduate Faculty offers two fellowships of \$1,700 each to men and women who have graduated in Commerce or in Economics from accredited universities. The holder of the fellowship is entitled to apply again in a subsequent year. Holders will be expected to be in residence at McGill University throughout the academic session, and to be candidates for a higher degree at McGill. A small amount of teaching work may be asked. Application forms can be obtained from the Dean of the Graduate Faculty, and should be returned to the Dean of the Graduate Faculty on or before February 1st. Preference will be given to applicants who have previous research experience.

PHILIP CARPENTER FELLOWSHIP IN ZOOLOGY.—This award of \$800 was established in 1892 by Mrs. Philip P. Carpenter to provide "a postgraduate teaching fellowship or scholarship in Natural Science or some branch thereof in the Faculty of Arts of McGill College." The award is normally made to a graduate student who has been in residence for at least one year as a Demonstrator, and the Department of Zoology commonly makes a further award of about \$700 to the holder. Application may be made to Professor John Stanley before February 1st.

MARY KEENAN SCHOLARSHIP IN ENGLISH.—This scholarship of \$200 is awarded by the Department of English to a student who is proceeding at McGill University from the B.A. to the M.A. in English. The need of the student as well as his ability will be taken into consideration.

SCHOLARSHIPS

SAMUEL LAPITSKY SCHOLARSHIP.—This scholarship of \$1,200 plus tuition fees is tenable by a graduate of any accredited university. Tenure is conditional upon acceptance of the student by the Faculty of Graduate Studies and Research in the field of Sociology or Anthropology. The scholarship is tenable in any year of graduate study and may be renewed for a second year. A small amount of teaching work may be required. Application to the Dean of the Graduate Faculty should be made not later than February 1st.

ALEXANDER MACKENZIE FELLOWSHIP IN POLITICAL SCIENCE.—This fellowship of the annual value of \$1,200 plus tuition fees is tenable by a graduate of any accredited university. Such tenure is conditional upon the acceptance by the Department of Economics and Political Science of the applicant as being entitled to admission to the Faculty of Graduate Studies and Research in the field of Political Science. A certain amount of tutorial and teaching work will be required of the holder of the fellowship. Under certain conditions, which may be ascertained in consultation with the Department of Economics and Political Science, this fellowship may be held for a second or third year. Each candidate should send (i) a letter of application, (ii) a certified copy of his academic record, (iii) not more than three testimonials. These should reach the Dean of the Graduate Faculty before the 1st of February.

DAVID STEWART MEMORIAL FELLOWSHIPS.—Two fellowships, one in the Physical Sciences and one in the Biological Sciences, have been established by the provision of an endowment under the will of the late Miss Agnes Stewart in memory of her father, the late David Stewart. They will be awarded each year to candidates who demonstrate ability of a high order and who are likely to enter a career of university teaching. For students in the first year of graduate study the value of the fellowships will be \$1,400 plus tuition fees, and \$1,800 plus tuition fees for students in the upper years. The award will be for one year only but holders will be eligible to apply for renewal. Application should be made to the Dean of the Graduate Faculty not later than February 1st.

ARTHUR C. TAGGE FELLOWSHIP IN THE HUMANITIES AND SOCIAL SCIENCES.—This fellowship of the annual value of \$1,200 plus tuition fees is tenable by a graduate of any approved university proceeding to a higher degree in any Department of the Humanities or the Social Sciences. It will normally be awarded for the first year of graduate study and not be renewable, but exceptions to these rules are not excluded. Applications are invited from outstanding students in the last year of the undergraduate course, at McGill or elsewhere, and should reach the Dean of the Graduate Faculty not later than February 1st.

GRADUATE STUDENTS

UNION CARBIDE RESEARCH FELLOWSHIPS.—Two fellowships of \$1,500 each in the Natural and Social Sciences have been established by Union Carbide (Canada) Limited and are open to graduates of Canadian universities who are candidates for the Ph.D. degree and have already done at least one year of graduate work. Application should be made to the Dean of the Graduate Faculty by February 1st.

UNIVERSITY FELLOWSHIPS.—The Board of Governors in 1948 set aside \$4,000 annually to establish fellowships in the Humanities and Social Sciences, tenable at McGill by graduates of any approved University who have been admitted to candidacy for a higher degree in these fields including the M.A., M.C.L., LL.M., S.T.M., or Ph.D. The value of each is \$500. Application should be made to the Dean of the Graduate Faculty prior to February 1st.

In addition, a limited number of fellowships of the value of \$1,200 plus tuition fees for ten months, has been made available from the general funds of the University; holders must be full-time resident graduate students at McGill, duly admitted and in good standing, but there is no restriction as to subject, sex, seniority, or country or university of origin. Application should be made to the Dean of the Graduate Faculty not later than February 1st.

OPEN TO GRADUATES IN DIVINITY ONLY

SAMUEL FINLEY MEMORIAL BURSARY (see page 679).

OPEN TO GRADUATES IN ENGINEERING ONLY

SIR WILLIAM DAWSON FELLOWSHIP IN METALLURGY.—A research and teaching fellowship of \$1,100 annually, in the Department of Metallurgical Engineering, endowed in memory of the late Sir William Dawson, Principal of McGill University from 1855 to 1893. If, in any particular year, the Department of Metallurgy has no candidate for this fellowship and for that same year the Department of Mining has a suitable candidate for whom no fellowship is available the Sir William Dawson Fellowship shall become available to the Department of Mining.

JAMES DOUGLAS FELLOWSHIP IN MINING. A research and teaching fellowship of \$1,100 annually, in the Department of Mining Engineering, endowed by the late Dr. James Douglas, is restricted to McGill graduates.

B. J. HARRINGTON BURSARY IN MINING ENGINEERING.—This bursary of approximately \$500 a year, supported by graduates in Mining Engineering in memory of the late Professor B. J. Harrington, is awarded annually if a suitable candidate offers, and is restricted to McGill graduates.

SCHOLARSHIPS

JOHN BONSALE PORTER SCHOLARSHIP.—This scholarship of \$200 founded by Dr. W. W. Colpitts (B.Sc., 1899), is open to graduate students proceeding to the degree of M.Eng. in Civil, Mechanical, or Electrical Engineering, preference being given to students in Civil Engineering. Applications should be in the hands of the Dean of the Faculty of Engineering not later than July 30th. In the case of graduates of other universities these must be accompanied by certified statements of academic standing and letters of recommendation.

WADDELL LOAN FUND.—Loans from this fund, which was founded by J. B. Waddell, Esq., may be made to graduate as well as undergraduate students in any Department of Engineering. Application should be made to the Dean of the Faculty of Engineering.

OPEN TO GRADUATES IN MEDICINE ONLY

A. A. BROWNE MEMORIAL FUND.—The sum of \$10,000 has been received by the Faculty of Medicine from the committee of the A. A. Browne Memorial Fund. This fund is used either for a fellowship to be known as the "A. A. Browne Memorial Fellowship", or for a grant to a department to provide technical assistance, equipment, and supplies for medical research. The fellowship is open to graduates of any recognized medical school and is for the advancement of medical science, special preference being given to the subjects of Obstetrics and Gynaecology. For further information apply to the Secretary of the Faculty of Medicine.

JAMES COOPER ENDOWMENT FOR THE STUDY AND TEACHING OF INTERNAL MEDICINE.—This fund was established by a bequest from the late James Cooper. The income will be used for fellowships or for grants to departments to provide technical assistance, equipment, and supplies for medical research.

JAMES DOUGLAS FELLOWSHIP IN PATHOLOGY.—The sum of \$25,000 was donated by the late Dr. James Douglas, the proceeds to be devoted to co-ordinated research in the laboratories of pathology in or associated with the University.

BLANCHE HUTCHINSON RESEARCH FUND.—This fund was established by a bequest from the late Mrs. Frank L. Hutchinson. The income will be used for fellowships or for grants to departments to provide technical assistance, equipment, and supplies for medical research.

JOSEPH MCABBIE SCHOLARSHIP.—This scholarship of \$1,000 was established by a bequest from the late Joseph McAbbie for research on asthma and asthmatic bronchitis. Applications must be made to the Secretary of the Medical Faculty prior to February 1st.

GRADUATE STUDENTS

GEORGE W. MERCK MEMORIAL LOAN FUND.—Established in 1960 to provide loans up to a maximum of \$500 to graduates of any approved medical school who are internes or residents in one of the McGill teaching hospitals. Applications in the first instance should be made to the Director of a teaching hospital who will submit them to the Dean of the Medical Faculty.

H. W. MOLSON FELLOWSHIP IN CANCER RESEARCH.—This fellowship has an annual value of not less than \$1,000, is renewable for not more than four years, and is open to graduates of any recognized medical school. The course of training and research will be decided by the Strathcona Professor of Pathology and the Professor of Obstetrics and Gynaecology, and will ordinarily comprise one or more years of study in the Pathological Institute followed by clinical research in the Royal Victoria Hospital. Applications should be made to the Dean of the Faculty of Medicine.

FELLOWSHIPS IN NEUROLOGY, NEUROPATHOLOGY, AND NEUROSURGERY.—A limited number of fellowships may be available in the Montreal Neurological Institute, to which inquiries should be directed.

SIR EDWARD BEATTY MEMORIAL SCHOLARSHIPS FOR MEDICAL STUDENTS (see page 670).

GORDON PHILLIPS FUND FOR RESEARCH IN CARDIOVASCULAR DISEASES.—This fund provides a scholarship, having a value of not less than \$1,600, and is open to graduates in Medicine of any approved medical school. Candidates will be considered on equal terms regardless of sex, race or religion. Scholarships awarded to graduates of the Faculty of Medicine of McGill University may be held at McGill or at any approved institution in Canada or abroad. An award made to one who is not a graduate in Medicine of McGill University must be held at McGill University. Application for this scholarship must be made to the Secretary of the Faculty of Medicine prior to February 1st.

JEANNETTE VICTOR MEMORIAL SCHOLARSHIP.—This scholarship, of the value of \$300, is open to graduates of any approved medical school and who are principally engaged in research upon the physiology of the heart, or its diseases; tenure of this award does not disqualify the scholar from holding another award or position. Application should be made to the Secretary of the Faculty of Medicine, prior to May 1st.

JOSEPH SCHUBERT MEMORIAL SCHOLARSHIP.—The terms of this award of \$300 are similar to those of the Jeannette Victor Memorial Scholarship.

SCHOLARSHIPS

B. FELLOWSHIPS AND SCHOLARSHIPS TENABLE AT MCGILL UNIVERSITY OR ELSEWHERE

OPEN TO GRADUATES IN TWO OR MORE FACULTIES

RUSSELL J. EDDY FOUNDATION SCHOLARSHIP.—This award, of \$1,000 for the session, is tenable by a graduate of a Canadian university pursuing graduate work in Chemistry or Chemical Engineering at any approved institution; applications should be submitted to the Chemical Institute of Canada, 18 Rideau Street, Ottawa, before March 1st.

IMPERIAL OIL GRADUATE RESEARCH FELLOWSHIPS.—Five fellowships of \$1,600, renewable up to three years, are offered annually by Imperial Oil Limited to graduates of approved Canadian universities for research leading towards a Doctor's degree at any approved university in the following fields:

Chemistry, Physics and/or Engineering	Two fellowships
Geology	One fellowship
Economics, Psychology, Sociology or Business Administration	One fellowship
Humanities such as English, Ancient and Modern Languages, History, Philosophy	One fellowship

Applications are forwarded by the University at which the undergraduate course was followed, and inquiries should be made at the Registrar's Office not later than February 1st or to the Secretary, Imperial Oil Scholarships Committee, 111 St. Clair Avenue West, Toronto 7. Completed applications must be submitted before March 1st.

MCGILL DELTA UPSILON MEMORIAL SCHOLARSHIP.—Founded by the McGill Chapter of the Delta Upsilon Fraternity in memory of the members of that Chapter who gave their lives in the Boer War, the Great War of 1914-18, and the Second World War of 1939-45. This scholarship is open to graduates of the University in all faculties. The Selection Committee will consider: (a) the general scholarship of the candidate; (b) his need of financial assistance for further study; (c) the general usefulness to the community of the special branch of study he proposes to follow; (d) the likelihood that the candidate will reflect credit on the University. The present value of the scholarship is \$1,750. Application should be made in writing to the Registrar before April 1st.

GRADUATE STUDENTS

NATIONAL CANCER INSTITUTE RESEARCH FELLOWSHIPS.—Fellowships of variable value, normally tenable in Canada, are offered in the field of cancer research to men or women graduates of approved universities. Application must be made on official forms to the National Cancer Institute of Canada, 800 Bay Street, Toronto 5, by December 15th

NATIONAL RESEARCH COUNCIL SCHOLARSHIPS.—Bursaries and studentships of the value of \$1,200 and \$2,200 respectively, are awarded each year by the National Research Council to highly qualified graduates for study and research in Canada in Biology, Chemistry, Physics, Geology, Mathematics, Engineering, and Applied Psychology. They are open on equal terms to men and women, whose age should not exceed 30. Further particulars and application forms may be obtained from the Registrar's Office and applications should be made before February 1st. A limited number of Post-doctorate Overseas Research Fellowships are also available.

INTERNATIONAL NICKEL OF CANADA FELLOWSHIPS.—These awards of \$2,000 (plus \$500 for research expenses) are renewable up to three years, and are open in the fields of Metallurgy, Mining, Geology, and the Chemistry and Physics of Metals. Applications are made by the Professor directing the research rather than by the student, and should reach the Dean of the Graduate Faculty not later than February 1st; the awards are made by a committee of the National Conference of Canadian Universities.

ONTARIO RESEARCH FOUNDATION SCHOLARSHIPS AND FELLOWSHIPS.—The Ontario Research Foundation (43 Queen's Park, Toronto 5) offers annually a number of postgraduate scholarships and fellowships in science and engineering. These awards are tenable at any university in Ontario by Canadian students from any recognized Canadian university and tenable by Ontario students at universities elsewhere. The purpose of these awards is to enable students to undertake graduate studies leading to advanced degrees in the natural and physical sciences, pure and applied, such as Biology, Chemistry, Engineering, Forestry, Geography, Geology, Mathematics, Metallurgy, Mineralogy, and Physics. Scholarships of \$1,000 may be awarded to applicants for their first year of postgraduate research. Scholarships of \$1,400 may be awarded to applicants with one or two years' research experience following graduation. Scholarships in this category may be renewed. A supplement of \$300 may be granted for the four months preceding an academic term for which a scholarship has been awarded. Application must be made, on forms obtainable at the Graduate Faculty Office, before February 1st.

PROVINCE OF QUEBEC MINING BURSARIES (see page 659).

SCHOLARSHIPS

COMMONWEALTH SCHOLARSHIP AND FELLOWSHIP PLAN.—The Commonwealth Scholarship and Fellowship Plan aims at providing opportunities for Commonwealth students to pursue advanced courses in other Commonwealth countries. The scholarships are intended for men and women of high intellectual promise who may be expected to make a significant contribution to their own countries on their return from study abroad. At present, graduate scholarships are available for study in the United Kingdom, Australia, New Zealand, Hong Kong, Malaya, and South Africa, and the Canadian Government offers scholarships for other Commonwealth students to study in Canada. Awards will normally be made for a period of two academic years and will cover return transportation, tuition fees, a personal maintenance allowance, and a grant for incidental expenses. Deadline dates for receipt of applications vary according to each country. Full information and application forms may be obtained from the Canadian Universities Foundation, 77 Metcalfe Street, Ottawa 4, Ontario.

OPEN TO GRADUATES IN ARTS AND SCIENCE ONLY

CANADA COUNCIL SCHOLARSHIPS AND FELLOWSHIPS.—The Canada Council offers (a) scholarships of \$1,200 tenable by students working for a Master's degree at a Canadian university, (b) fellowships of \$2,000 plus travel allowance, for study leading to a Doctor's degree, in Canada or elsewhere, (c) senior fellowships of \$4,000 plus travel allowance, for established scholars and teachers for study outside Canada, (d) scholarships of \$2,000 for secondary school teachers seeking further training, etc. In all these cases awards are restricted to the arts, humanities, and social sciences; are restricted to residents in Canada or Canadians abroad; and must be applied for by January 15th. Application forms and further information may be obtained from the Secretary, The Canada Council, 140 Wellington Street, Ottawa.

ALLEN OLIVER FELLOWSHIP IN ECONOMICS.—This fellowship has been established by Mrs. Frank Oliver, of Edmonton, Alta., in "proud and loving memory of her son, the late Allen Oliver, M.C., B.A., Lieutenant, 26th Battery, C.F.A., who was killed in action at the Somme on November 18th, 1916." Lieutenant Oliver was an honour graduate in 1915 in the Department of Economics and Political Science. The fellowship is awarded annually to the student who stands highest in first class honours in the Department of Economics and Political Science at the final B.A. examination, and the holder is required to pursue his studies in Economics and Political Science at McGill University or elsewhere. The present value of the scholarship is about \$1,000. No application is required.

GRADUATE STUDENTS

LIONEL SHAPIRO AWARD.—An annual award of \$600 is awarded by the Scholarships Committee of the Faculty of Arts and Science on the recommendation of the Chairman of the Department of English to a student in the B.A. course who is completing his Fourth year and has demonstrated outstanding literary talent.

DOW-HICKSON FELLOWSHIP IN THEORETICAL PHILOSOPHY.—This fellowship was endowed by the late Professor J. W. A. Hickson. It has a minimum annual value of \$1,750 and is tenable by a graduate of any approved university proceeding to a higher degree in Theoretical Philosophy (Metaphysics, Epistemology, Logic, History of Philosophy) at McGill, or by a McGill graduate pursuing such studies elsewhere. The holder may apply for a second year of tenure. Applications should reach the Dean of Graduate Studies not later than February 1st. In special cases the stipend may be increased, not to exceed \$2,750.

DOW-HICKSON FELLOWSHIP IN PHYSICS.—This fellowship was endowed by the late Professor J. W. A. Hickson. It has a minimum annual value of \$1,750 and is tenable by a graduate of any approved university proceeding to a higher degree in any branch of Physics at McGill, or by a McGill graduate pursuing such studies elsewhere. The holder may apply for a second year of tenure. Applications should reach the Dean of Graduate Studies not later than February 1st. In special cases the stipend may be increased, not to exceed \$2,750.

WOODROW WILSON FELLOWSHIPS.—These Fellowships, tenable in the First year of graduate work, at any approved university, are awarded upon invitation only upon nomination by members of the academic profession and cannot be applied for.

OPEN TO GRADUATES IN LAW ONLY

EDWIN BOTSFORD BUSTEED SCHOLARSHIP.—Founded by the will of the late Mrs. Edwin Botsford Busteed in memory of her husband, Edwin Botsford Busteed, K.C., B.A., B.C.L., and is awarded to an applicant, chosen by the Faculty, who desires to carry out graduate research on some subject connected with the law of Quebec and approved by the Faculty. The value of the scholarship is approximately \$240.

OPEN TO GRADUATES IN MEDICINE ONLY

SIR EDWARD BEATTY MEMORIAL SCHOLARSHIPS FOR MEDICAL STUDENTS (see page 670).

G. RUTHERFURD CAVERHILL FELLOWSHIP IN MEDICINE.—A fellowship of variable value to assist demobilized medical officers to obtain post-graduate training in medicine or research experience. Preference will be given to graduates of McGill University. Enquiries should be made of the Dean of the Faculty of Medicine.

SCHOLARSHIPS

JOHN MCCRAE FELLOWSHIP.—This fellowship of \$1,000 may be awarded to candidates of the following types: (1) Graduates of any approved medical school who are candidates for the Diploma in Surgery, Urology, Otolaryngology, Radiology, etc., or (2) McGill graduates in Medicine, or (3) graduates of any approved medical school proceeding towards a McGill M.Sc. or Ph.D. in fields related to Surgery, etc., it being understood in all cases that the holder is expected to spend twelve months in full-time laboratory or clinical research at McGill or an approved institution elsewhere. Applications should be made to the Dean of the Faculty of Medicine not later than May 1st, and should be accompanied by a letter of recommendation from a member of the teaching staff, a transcript of the undergraduate record, and a description of the proposed research indicating the institution selected and the person responsible for its direction. The period of tenure should commence not earlier than June nor later than October; a final report on the work done is required. In all cases preference will be given to candidates aiming at a course in Surgery, and to researches likely to contribute to Surgery and its branches.

NATIONAL RESEARCH COUNCIL MEDICAL FELLOWSHIPS.—These are designed to promote training and research in one of the medical sciences (not for clinical training), and have values of \$1,800, \$2,200, or from \$2,200 to \$3,500 for those with previous research experience. Applications should be submitted to the National Research Council before February 1st.

OSLER MEMORIAL SCHOLARSHIP.—This scholarship is normally awarded by the Canadian Medical Association every third year to a candidate nominated by the Faculty of Medicine "in order that such candidate may pursue studies to advance the knowledge of medicine and to improve the teaching of clinical medicine." Candidates must be graduates of not more than ten years' standing and, other things being equal, preference will be given to a graduate of McGill University.

GORDON PHILLIPS FUND (see page 703).

J. FRANCIS WILLIAMS SCHOLARSHIP IN MEDICINE AND CLINICAL MEDICINE.—This scholarship of the annual value of \$500, founded by the late J. Francis Williams, M.D., to be awarded on the result of a special examination open to students of the final year who have had a high general scholastic standing and who are approved by the Chairman of the Department of Medicine.

C. FELLOWSHIPS AND SCHOLARSHIPS TENABLE AT OTHER UNIVERSITIES ONLY

(See also Section B)

NOTE: The Committee on Research is at times able to make supplementary grants, not exceeding \$400, to holders of travelling fellowships who can

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establish that the normal stipend is insufficient; enquiries should be directed to the Dean of the Graduate Faculty.

OPEN TO GRADUATES IN SEVERAL FACULTIES

COLONIAL RESEARCH GRANTS.—The Colonial Social Science Research Council, Room S. 612, Colonial Office, Sanctuary Buildings, Great Smith St., London, S.W. 1, will, about June 15th, make grants of £500-£800 per annum to selected Honours graduates in the social sciences, including history and law; the tenure is normally $2\frac{1}{2}$ years of which two years will be spent in study and research in one of the British Colonial territories.

SCIENCE SCHOLARSHIPS GRANTED BY HER MAJESTY'S COMMISSIONERS FOR THE EXHIBITION OF 1851.—These scholarships, of £550 sterling a year, with an additional grant of £25-£100 a year to cover University fees, etc., are tenable for two or exceptionally, three years; to this, the National Research Council of Canada adds an additional stipend of £250. They are to enable students to devote themselves to research work under conditions must likely to equip them for practical service in the scientific life of the Commonwealth. The holder is required to devote himself to research, the particular nature of which must be approved by the Commissioners. Three of these scholarships, which are tenable at any institution approved by the Commission, are allotted to Canada each year, the scholars being chosen by the Commission from the nominees of certain universities, among which McGill is included. Candidates will in most cases have completed from one to three years of postgraduate study and must present evidence of accomplishment in research, either in the form of published papers or as typewritten reports or theses. The scholarships are usually held at universities in the United Kingdom. Candidates should apply, not later than January 15th, through the Chairman of their Department. Details concerning the regulations may be obtained from the Registrar's Office.

RUTHERFORD SCHOLARSHIP.—This scholarship is awarded for experimental research in any branch of the natural sciences, preference being given to experimental physics. The scholarship will be tenable for three years in some part of the British Commonwealth other than that in which the applicant graduated. It will not normally be awarded to a graduate who has already held a senior research award. The value of the scholarship will be adjusted to meet the circumstances of the appointment but if held in the United Kingdom it will be between £650 and £850 per annum. Additional allowances will be granted for travel, university fees, etc. Application from university graduates outside the United Kingdom should be made through their universities on forms of application for the 1851 Exhibition Science Research Scholarship not later

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than January 15th. Further details may be obtained from the Registrar's Office. The award will be made by the Royal Society.

EXCHANGE FELLOWSHIP WITH THE UNIVERSITY OF GLASGOW.—An exchange fellowship has been established whereby a McGill graduate may spend a session of postgraduate work in the University of Glasgow. McGill University provides \$500 towards the cost of transportation and an additional allowance of \$500; Glasgow provides tuition, room, and board from October 1st to June 30th with an additional allowance of £50. Recommended fields of study are Chemistry, Physics, Zoology, Marine Biology, Botany, Geology, Economics, and the Medical Sciences. Application should be made to the Dean of the Graduate Faculty by February 1st; preference will be given to applicants who are Canadian and who have studied at McGill for several years.

HAROLD H. HELM FELLOWSHIPS.—These fellowships are tenable in the Graduate School of Princeton University by men who hold a Bachelor's degree from McGill. Their value is \$1,400 to \$1,800 plus fees, plus an additional grant if studies are continued during the summer. Letters of application should reach the Dean of the Graduate School at Princeton as early as possible and certainly before February 1st.

POSTGRADUATE SCHOLARSHIPS GRANTED BY THE IMPERIAL ORDER DAUGHTERS OF THE EMPIRE.—Nine scholarships, in memory of the men and women who gave their lives in defence of the Empire in World War I, are offered annually—one for each province. They are of the value of \$2,000 and have been founded "to enable students to carry on studies at any university in the United Kingdom, in British and Imperial History, the Economics and Government of the Empire and Dominion, or any subject vital to the interests of the Empire."

Four additional postgraduate scholarships of \$2,000 each have been established by the Imperial Order Daughters of the Empire in memory of the men and women who gave their lives in defence of the Empire in World War II. These scholarships are offered annually to enable students to carry on postgraduate work in History, Philosophy, English, or French Literature and are tenable at any University in the British Empire. They may be awarded for a second year to the same candidate. Candidates must have graduated from a Canadian university or college and *have done or be doing postgraduate work.*

Full details may be obtained from the Registrar's Office or from the Provincial Educational Secretary of the Order in any Canadian Province. In Quebec the address is 4112 Western Ave., Westmount, Quebec. Applications must be submitted by October 15th.

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NUFFIELD FOUNDATION FELLOWSHIPS.—These awards are made in the Natural Sciences and in the Humanities and Social Sciences, and are open to Canadians 25 to 35 years old who have at least a year's teaching or research experience beyond the level of the Ph.D. degree. They are tenable in the United Kingdom, their value being £770-£890 plus a travel grant. Application forms may be obtained from Mr. G. V. Ferguson, 245 St. James St. West, Montreal, and should be submitted by January 15th at latest.

PROVINCE OF QUEBEC POSTGRADUATE SCHOLARSHIPS.—A number of scholarships are granted annually by the Government of the Province to graduate students. The value of these scholarships will not exceed \$2,000 per annum. They are awarded in the first instance for one year, but their tenure may be extended for a second year if the work of the holder is satisfactory. Candidates must have been resident and domiciled in the Province of Quebec for two years. Preference is given to those who intend to carry on teaching or research work in Canadian universities or schools on their return to Canada. Each letter of application should state the candidate's age at next birthday, his subject of study, and the institution he plans to attend, and should be accompanied by two testimonials from members of his faculty and two additional references from responsible citizens. The awards are generally announced by the Provincial Government at the end of July each year. Applications should be addressed to the Registrar and submitted not later than the 1st of April.

RHODES SCHOLARSHIPS.—These scholarships of £750 a year are tenable for two years at the University of Oxford. A third year may be granted under certain conditions. Candidates must be British subjects with at least five years domicile in Canada and be between the ages of nineteen and twenty-five. Two scholars are chosen annually from the Province of Quebec, and men students in any faculty may apply. Applications must be in the hands of the Secretary of the Provincial Selection Committee not later than November 1st. Further details of tenure, eligibility, and qualifications, and application forms may be obtained from the Registrar's Office, or the Provincial Secretary, Mr. Claude Gagnon, Q.C., 100 D'Youville, Quebec City.

CANADIAN GOVERNMENT OVERSEAS AWARDS.—The Royal Society administers the Canadian Government Overseas Awards in the Arts, Letters, and Sciences. These consist of Fellowships of \$4,000 for senior scholars and Scholarships of \$2,000 for students with the M.A. degree or equivalent and are tenable in France, The Netherlands, Great Britain, and Italy. Return ocean fare is paid in addition to the amount of the award. Application forms may be obtained from the Royal Society of Canada, National Research Building, Ottawa and must be submitted before April 1st.

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COMMONWEALTH SCHOLARSHIP AND FELLOWSHIP PLAN (see page 706).

SHELL POSTGRADUATE SCHOLARSHIPS.—Two scholarships of £750 per annum are offered for study at a university in the United Kingdom in Chemistry, Physics, Geology or Engineering, leading to a higher degree. The holder should be a male British (or Commonwealth) subject and have completed at least one year of postgraduate study. The closing date for applications is January 31st; further information may be obtained from the office of the Dean of the Graduate Faculty.

SWISS EXCHANGE SCHOLARSHIPS.—Two postgraduate exchange scholarships are offered annually tenable at the following Swiss universities:

University of Basel
University of Berne
University of Geneva
University of Zurich
Institute of Economic and Political Sciences, St. Gall
Federal Institute of Technology, Zurich.

These scholarships cover the cost of tuition fees only. Candidates must be prepared to pay all travelling costs and all incidental expenses such as books, living expenses, cost of vacation periods, etc. Candidates must be recommended by McGill University and have a good scholastic record, a satisfactory knowledge of French or German, and good health. The scholarships are open to both men and women of any faculty. Applications should be made to the Registrar by April 1st.

CANADIAN FEDERATION OF UNIVERSITY WOMEN'S PROFESSIONAL FELLOWSHIP.—

This fellowship of \$1,000 is open to any woman holding a degree from a Canadian University who is not more than 35 years of age at the time of award and whose domicile is in Canada. The proposed place and plan of study must be approved by the Fellowship Committee. The award will be based on evidence of character, intellectual achievement, and promise. Preference will be given to candidates who have completed one or more years of professional work and who desire to spend a year at an accredited Library School, College of Education, or similar professional school. Full information can be obtained from the Chairman of the Fellowship Committee, Dr. Mary Winspear, 18 Severn Ave., Westmount, Quebec. Application and testimonials must be received before February 1st.

CANADIAN FEDERATION OF UNIVERSITY WOMEN'S TRAVELLING FELLOWSHIP.—

This fellowship of \$2,500 is open to any woman holding a degree from a Canadian university who is not more than 35 years of age at the time of award and whose domicile is in Canada, although she may be studying elsewhere at the date of application. The award is based on evidence of

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character, intellectual achievement, and promise. Preference will be given to candidates who have completed one or more years of graduate study and who have a definite course of study or research in view. The general policy will be to grant the fellowship alternately to students engaged in scientific research and to those engaged in research in the humanities. Full information can be obtained from the Chairman of the Fellowship Committee, Dr. Mary Winspear, 18 Severn Ave., Westmount, Quebec. Applications and testimonials must be received before February 1st.

CANADIAN FEDERATION OF UNIVERSITY WOMEN'S JUNIOR FELLOWSHIP.—This fellowship of the value of \$1,500 is open to any woman graduate of a Canadian university who is not more than 25 years of age at the time of award and whose domicile is in Canada, although she may be studying elsewhere at the date of application. The award will be based on evidence of character, intellectual achievement, and promise. The proposed place and plan of study must be approved by the Committee. Preference will be given to students who have studied in only one university and who desire to continue their studies in another. Full information can be obtained from the Chairman of the Fellowship Committee, Dr. Mary Winspear, 18 Severn Ave., Westmount, Quebec. Applications and testimonials must be received before February 1st.

CANADIAN FEDERATION OF UNIVERSITY WOMEN'S MARGARET MCWILLIAMS FELLOWSHIP.—This fellowship of \$2,000 is open to any woman who is not more than 35 years of age at the time of award, holding a degree from a Canadian university who wishes to carry out postgraduate study or research abroad. The proposed place and plan of study must be approved by the Canadian Federation Fellowship Committee. The award will be based on evidence of character, achievement, and promise. Preference will be given to candidates who have started their graduate study and who have a definite course of study or research in view. Full information can be obtained from the Chairman of the Fellowship Committee, Dr. Mary Winspear, 18 Severn Ave., Westmount, Quebec. Applications and testimonials must be received before February 1st.

FRANK KNOX FELLOWSHIPS.—These awards of \$2,800 are tenable only in one of the Faculties of Harvard University by male Canadian students, not resident in the United States, who have graduated or are about to graduate from a Canadian university or college at which they have spent at least two of the last four years; enquiries may be made at the office of the Dean of the Graduate Faculty up to March 1st.

JOHNSON FOUNDATION SCHOLARSHIPS.—The Johnson Foundation of Racine, Wisconsin, and S. C. Johnson and Son, Limited, Brantford, Ontario, offer at least one scholarship to undergraduate or graduate students in Canadian universities enabling them to spend a year in an American

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university of his or her selection in economics, business administration, chemistry, engineering, law, medicine, teaching, etc. The award covers the reasonable expenses of travel to and study in the United States for one year for worthy and needy male or female students. Candidates must be Canadian citizens. Preliminary applications on special forms must be in Brantford by December 31st. Further information and application forms may be obtained from the Registrar's Office.

ROTARY FOUNDATION FELLOWSHIPS.—Each year Rotary International offers a number of fellowships for advanced study to graduates of recognized universities as an opportunity for young men and women of all nationalities, races and creeds to live, study, and travel in countries other than their own so that they may better understand the way of life and thinking of peoples of these other countries and make some contribution towards international understanding, good will, and peace.

Each fellowship provides return transportation from the student's home to the city in which he is to study, and also registration and tuition fees, essential books, room and board, incidental living costs and the cost of limited educational travel within the country of study.

Study under a Fellowship may be taken in any country in which there are Rotary Clubs. Preference will be given to Canadian students desiring to study in a country whose language is other than English and French.

Candidates must have a Bachelor's degree or expect to receive a Bachelor's degree before June 30th, 1961. They must be single and not less than 20 years of age and not more than 28 and must be highly qualified, personally and academically, and give satisfactory evidence of strong potential leadership.

Candidates must be interested in and have an extensive knowledge of current affairs of international significance. They should have a good understanding of the history, culture, economics, geography, etc., of the country in which they are to study and be able to read, write, and speak fluently the language of that country.

Application for a Fellowship can be made only through the Rotary Club of the town or city in the territory of which the applicant has permanent residence. The Rotary Club will supply application blanks to the applicant it decides to sponsor. Application must be typewritten in duplicate and presented, with required attachments, to the sponsoring club secretary not later than August 1st.

Further information may be obtained from the Registrar's Office or from the Rotary Club of Montreal, The Queen Elizabeth Hotel, Montreal, Quebec.

OPEN TO GRADUATES IN ARCHITECTURE

A. F. DUNLOP SCHOLARSHIPS.—This scholarship of approximately \$1,500 was established in 1951 by the will of the late Mrs. Catherine A. Dunlop

as a travelling scholarship for students graduating in Architecture. Applications stating proposed study, localities to be visited and proposed date of departure should be sent to the Director of the School of Architecture before March 31st.

HUGH MCLENNAN MEMORIAL SCHOLARSHIP. Established by the Hon. John Stewart McLennan, Dr. Francis McLennan and Miss Isabella McLennan in memory of Hugh McLennan, son of the Hon. John Stewart McLennan, killed at the Battle of Ypres in 1915. The amount of this scholarship is approximately \$1,500. It will be awarded to the student graduating in Architecture who during his course has shown the greatest capacity in the solution of problems and who gives promise of creative ability.

OPEN TO GRADUATES IN ARTS AND SCIENCE

MOYSE TRAVELLING SCHOLARSHIPS.—The Moyse Travelling Scholarships were founded by the late Right Honourable Lord Atholstan, to commemorate the "splendid services of Dr. Charles E. Moyse, for forty-two years Professor of English, during sixteen of which he was Dean of the Faculty of Arts and Vice-Principal of the University." Two scholarships, each tenable for one year, are awarded by the Faculty of Arts and Science, one for distinction in literary subjects, and the other for distinction in scientific subjects. If a deserving applicant in one of these divisions is not forthcoming, both scholarships may be awarded to applicants who belong to the other. The holder must devote the period of the tenure of the scholarship to advanced study, preferably in a British or European university, but not to the exclusion of other universities. The scholarships are normally of the value of \$2,000 each. Applications should be made to the Dean of the Faculty of Arts and Science not later than April 1st. Applications should be accompanied by:

- (1) an official transcript of the applicant's academic record to date.
- (2) the names of two referees who are familiar with the applicant's work.
- (3) a statement, as precise and particular as possible, of the course of study which the applicant proposes to pursue if awarded the scholarship; the institution or centre at which he, or she, proposes to study; and the purpose to which the study is to be directed.
- (4) a statement of the applicant's age and nationality.

GUY DRUMMOND SCHOLARSHIP IN POLITICAL SCIENCE AND ECONOMICS.—

This scholarship, open to men only, originally endowed by the late Guy M. Drummond, is awarded annually by the University Scholarships Committee to a graduating student in the Faculty of Arts and Science

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nominated jointly by the Department of Economics and Political Science and the Department of Romance Languages. In making the nomination the two Departments will take into account the student's academic record and the likelihood that he will make a contribution of value to Canadian life. The student nominated must be taking the honours course in Political Science. Selection of the scholar is made on the initiative of the University Scholarships Committee. It is not applied for by the candidate. The value of the Scholarship is \$3,700 plus tuition fees at McGill. \$2,500 of this covers a year of study in Paris and the remaining \$1,200 plus tuition fees a further year at McGill University studying for the M.A. degree. In Paris, the holder will study at the Institut d'Etudes Politiques unless he wishes to specialize in Economics rather than Political Science and has been granted permission by McGill University to study at the Sorbonne or at the Institut d'Economie Appliquée.

MACKENZIE KING TRAVELLING SCHOLARSHIPS.—From six to eight scholarships of \$1,500 each are offered annually to graduates of any Canadian university who propose to engage, either in the United States or the United Kingdom, in postgraduate studies in the fields of International or Industrial Relations. Applicants should be persons of unusual worth and promise. Awards will be determined on the basis of academic achievement, personal qualities and demonstrated aptitudes. Consideration will also be given to the applicants' proposed programmes of study. Applications must be submitted by April 15th. Further information may be obtained from the Registrar's Office.

OPEN TO GRADUATES IN ENGINEERING

ATHLONE FELLOWSHIPS.—These fellowships are awarded annually by Her Majesty's Government in the United Kingdom to enable Canadian engineering graduates to take postgraduate training in the United Kingdom. The fellowships fall into two groups: Group A, available for graduates on completion of a bachelor's or higher degree; Group B, for engineers who have already spent some time in industry. The fellowships provide for a period of two years in the United Kingdom and are awarded on the understanding that their holders afterwards return to Canada to follow their careers. They are available for any among the following options but preference is given for courses involving works experience: (1) Works training in one or more approved industrial organizations. (2) Postgraduate studies in a United Kingdom university or college or research establishment. (3) A combination of (1) and (2) (4) Research in a United Kingdom University leading to the degrees of M.Sc. or Ph.D. Each fellowship covers the cost of travel from home to the United Kingdom and return, the cost of approved university or college tuition and other fees, maintenance allowance, and a travelling

allowance of £25 extra within the United Kingdom for educational and cultural purposes. Further information and application forms may be obtained from Canadian University Registrars. The closing date for receipt of applications is January 15th.

OPEN TO GRADUATES IN LAW

MACDONALD TRAVELLING SCHOLARSHIP.—This scholarship was founded by the will of the late Sir William Macdonald "for the purpose of enabling English-speaking Law students to take a course of studies in France," the testator "deeming it of great importance that the English-speaking members of the legal profession should be proficient in the French language." The value of the scholarship is approximately \$1,700. The scholar elected is required to pursue a year's study in the Law Faculty of a French university approved in each case by the McGill Faculty of Law. The award is made at the discretion of the Faculty to a student of the graduating class, proceeding to the Bar, who has obtained first or second class honours in the final examination and who would be unable without such financial help to spend a year in France. The Faculty interprets the will of the late Sir William Macdonald as intending that the scholarship be awarded only to men students preparing for practice as advocates in the Province of Quebec. Under the present regulations the Scholarship must be used in the year in which it is awarded.

OPEN TO GRADUATES IN MEDICINE

MUFFIELD FOUNDATION MEDICAL TRAVELLING FELLOWSHIPS.—These awards of £770 to £890 plus travelling allowances are open to Canadian nationals between 25 and 30 years of age who hold recognized medical qualifications. Candidates must possess the talents and personal inclinations which afford good promise of their ability to advance knowledge and education in some branch of medicine as teachers or research workers. The fellowships are tenable at approved institutes in the United Kingdom. The fellow will be expected to resume residence in Canada on completion of the fellowship. Applications should be made to the General Secretary, National Research Council, Ottawa, Ontario, before January 1st.

FELLOWSHIPS OFFERED BY OTHER UNIVERSITIES

Graduates of McGill University who desire to undertake graduate study elsewhere should note that many universities offer fellowships and scholarships for which they may be eligible. Particulars of many of these may be obtained in the Registrar's Office. In many cases applications should be prepared not later than the January preceding the session for which the award is made.

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D. FELLOWSHIPS AND SCHOLARSHIPS OPEN TO GRADUATES OF OTHER INSTITUTIONS FOR STUDY AT MCGILL UNIVERSITY

A number of the awards listed in the preceding pages (Sections A and B) may be held by graduates of other institutions while pursuing graduate study at McGill University; these are listed below.

VARIOUS SUBJECTS

COMMONWEALTH SCHOLARSHIP AND FELLOWSHIP PLAN (see page 706).

IMPERIAL OIL GRADUATE RESEARCH FELLOWSHIPS (see page 704).

INTERNATIONAL NICKEL CO. OF CANADA FELLOWSHIPS (see page 705).

SAMUEL LAPITSKY SCHOLARSHIP IN SOCIOLOGY (see page 700).

NATIONAL RESEARCH COUNCIL SCHOLARSHIPS (see page 705).

ONTARIO RESEARCH FOUNDATION SCHOLARSHIPS (see page 705).

SOLVAY FELLOWSHIP (see page 697).

ARTHUR C. TAGGE FELLOWSHIP AND UNIVERSITY FELLOWSHIPS (see page 700)

UNION CARBIDE RESEARCH FELLOWSHIPS (see page 701).

CANADIAN FEDERATION OF UNIVERSITY WOMEN'S FELLOWSHIPS (see page 712)

AGRICULTURE

COMINCO FELLOWSHIP (see page 695).

WALTER M. STEWART SCHOLARSHIP (see page 698).

BIOLOGICAL SCIENCES

PHILIP CARPENTER FELLOWSHIP (see page 699).

CHEMISTRY

ALLIED CHEMICAL FELLOWSHIP (see page 694).

AMERICAN VISCOSE CORPORATION FELLOWSHIP (see page 694).

C-I-L FELLOWSHIPS (see page 694).

CELANESE FELLOWSHIP (see page 694).

COMINCO FELLOWSHIP (see page 695).

RUSSELL J. EDDY FOUNDATION SCHOLARSHIP (see page 704).

GOTTESMAN SCHOLARSHIP (see page 695).

T. STERRY HUNT RESEARCH SCHOLARSHIP (see page 696).

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SHELL OIL FELLOWSHIP (see page 697).

SPRUCE FALLS POWER AND PAPER COMPANY FELLOWSHIP (see page 697).

ECONOMICS

BRONFMAN FELLOWSHIPS (see page 699).

ALEXANDER MACKENZIE FELLOWSHIP (see page 700)

ENGINEERING

COMINCO FELLOWSHIP (see page 695).

MIRON FELLOWSHIP (see page 697).

JOHN BONSALE PORTER SCHOLARSHIP (see page 702).

SHELL OIL FELLOWSHIP (see page 697).

SPRUCE FALLS POWER AND PAPER COMPANY FELLOWSHIP (see page 697).

GEOLOGY

LEROY MEMORIAL FELLOWSHIP (see page 696).

SHELL OIL FELLOWSHIP (see page 697).

IMPERIAL OIL FELLOWSHIPS (see page 704).

WILLIAM HENRY HOWARD SCHOLARSHIPS (see page 655).

MEDICINE AND MEDICAL SCIENCES

SIR EDWARD BEATTY MEMORIAL SCHOLARSHIPS (see page 670).

A. A. BROWNE MEMORIAL FUND (see page 702).

G. RUTHERFURD CAVERHILL FELLOWSHIP (see page 707).

J. B. COLLIP FELLOWSHIP (see page 695).

JAMES COOPER FUND (see page 702).

JAMES DOUGLAS FELLOWSHIP (see page 702).

BLANCHE HUTCHINSON FUND (see page 702).

JOHN MCCRAE FELLOWSHIP (see page 708).

H. W. MOLSON FELLOWSHIP (see page 703).

FELLOWSHIPS IN NEUROLOGY (see page 703).

OSLER MEMORIAL SCHOLARSHIP (see page 708).

GORDON PHILLIPS FUND (see page 703).

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JOSEPH SCHUBERT MEMORIAL SCHOLARSHIP (see page 703).

JEANNETTE VICTOR MEMORIAL SCHOLARSHIP (see page 703).

HARRISON WATSON SCHOLARSHIP (see page 698).

PHYSICS

SHELL OIL FELLOWSHIP (see page 697).

DOW-HICKSON FELLOWSHIP (see page 707).

The attention of applicants for admission to the Faculty of Graduate Studies is also drawn to the existence of demonstratorships and instructorships in certain departments (see page 693).

N.B.—From time to time scholarships, fellowships, or research grants are made available by industrial corporations to encourage research by graduate students upon specific problems suitable for M.Sc., M.Eng., or Ph.D. theses and for publication, but also of commercial significance. As such awards may be offered for only one or two sessions, it is not possible to have them listed in this Announcement; the Departments concerned should be consulted.

LOAN FUNDS

GRADUATE STUDENTS' LOAN FUND.—Established in 1951 by the Board of Governors for students in the Faculty of Graduate Studies and Research. Applications should be made to the Student Aid Officer.

OTHER LOAN FUNDS.—For loan funds open to students in all faculties see page 632.

V. SCHOLARSHIPS, PRIZES, AND MEDALS IN VARIOUS SCHOOLS OF THE UNIVERSITY

OPEN TO STUDENTS IN THE LIBRARY SCHOOL

For scholarships and bursaries open to undergraduates in all Faculties see page 623.

NATIONAL SCHOLARSHIPS (see page 613).

DR. G. R. LOMER SCHOLARSHIPS.—Two scholarships of \$400 each. Applications should be made to the Library School before June 1st.

GROLIER SOCIETY SCHOLARSHIP.—A scholarship of \$250 established by the Grolier Society of Canada Limited.

STUDENTS IN VARIOUS SCHOOLS

MCGILL UNIVERSITY LIBRARY SCHOOL ALUMNI SCHOLARSHIP.—Applications should be made to the Library School.

ETHELWYN M. CROSSLEY SCHOLARSHIPS.—This fund was founded in honour of a former student of the Library School. Women students are given preference.

ELIZABETH G. HALL SCHOLARSHIPS.—This fund was founded in memory of a former member of the McGill University Library staff.

Awards are made, after due investigation and recommendation, to deserving students who require financial assistance to take the course. Application should be made to the Director of the Library School.

LOAN FUNDS.—See page 632.

OPEN TO STUDENTS IN THE FRENCH SUMMER SCHOOL

FRENCH SUMMER SCHOOL SCHOLARSHIPS.—A number of Resident Scholarships varying in value from \$75 to \$150 are offered to teachers and to students of colleges and universities who are qualified to enter Section B (Intermediate) or Section C (Advanced). (*See French Summer School Announcement.*)

OPEN TO STUDENTS ENTERING THE SCHOOL FOR GRADUATE NURSES

OPEN TO BASIC NURSING (B.Sc.(N)) AND B.N. STUDENTS

NATIONAL SCHOLARSHIPS (see page 613).

OTHER ENTRANCE SCHOLARSHIPS (see pages 612-623).

UNIVERSITY SCHOLARSHIPS AND BURSARIES (see pages 623 and 624).

VICTORIAN ORDER OF NURSES FOR CANADA BURSARIES (see page 722).

OPEN TO GRADUATE NURSES ONLY:

ALEXANDRA HOSPITAL SCHOLARSHIP.—The Board of Governors offers a scholarship in the form of full maintenance at the hospital during a year's study at the School for Graduate Nurses. Only members of the hospital nursing staff are eligible.

ALUMNAE ASSOCIATION OF THE SCHOOL FOR GRADUATE NURSES SCHOLARSHIP.—In memory of Dr. Marion Lindeburg, the Alumnae Association has established an annual scholarship of \$500. This scholarship is open to graduate, registered nurses who wish to study at the School for Graduate Nurses, and who meet the entrance requirements. Applications should

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be submitted by June 15th to the Chairman of the Scholarship Committee, Alumnae Association, 1266 Pine Ave. West, Montreal.

ASSOCIATION OF NURSES OF THE PROVINCE OF QUEBEC BURSARIES:

(a) Two bursaries of \$1,200 are customarily offered to practising members in good standing of the Association of Nurses of the Province of Quebec whose qualifications are acceptable to a university for any approved course.

(b) District No. 11 (English Chapter) Association of Nurses of the Province of Quebec offers a bursary of \$1,500 to a member of the Chapter, whose qualifications are acceptable to a university. The nurse who accepts the bursary will be expected to work in the Province of Quebec for two years following the completion of her course.

MONTREAL CHILDREN'S HOSPITAL SCHOOL OF NURSING SCHOLARSHIP.—The Board of Governors offers a scholarship in the form of lodging at the hospital during one year's study at the School for Graduate Nurses. Those accepting the scholarship are required to work for one year at the Montreal Children's Hospital on completion of the course.

MONTREAL GENERAL HOSPITAL SCHOOL OF NURSING BURSARIES.—Bursaries are provided annually by the Montreal General Hospital to graduate nurses for study to prepare them for administrative and teaching positions.

ROYAL VICTORIA HOSPITAL SCHOOL OF NURSING SCHOLARSHIPS:

(a) The Mabel F. Hersey Scholarship is given annually by the Board of Governors for a year of postgraduate study at the School for Graduate Nurses, McGill University.

(b) The Emma Thomas Scholarship is offered annually for postgraduate study.

(c) The Ida McGregor Scholarship is offered annually for postgraduate study.

(d) A bursary of \$1,000 donated by the Women's Auxiliary for postgraduate study to be awarded to a senior member of the staff.

VICTORIAN ORDER OF NURSES FOR CANADA BURSARIES.—The Victorian Order of Nurses for Canada offers bursaries of \$1,000 to nurses to assist them in taking preparation in Public Health Nursing. Following their course, the recipients are obligated to work one year for the Victorian Order of Nurses in the area where their services are most urgently needed. Bursaries are also available to students in the final year of the Basic Nursing Degree course which includes preparation in public health nursing.

STUDENTS IN VARIOUS SCHOOLS

QUEEN ELIZABETH HOSPITAL SCHOLARSHIP.—The *Martha Warren Scholarship* of \$500 may be given, all or in part, by the Alumnae Association of the Queen Elizabeth Hospital School of Nursing to any Alumnae member, or members, who wish financial help for postgraduate study. Application for the scholarship must be submitted on or before April 25th of each year. The nurse accepting this scholarship is expected to work in the Queen Elizabeth Hospital for one year following completion of her course provided there is a position open in her field of study.

REDDY MEMORIAL HOSPITAL BURSARY.—The Board of Directors offers a bursary to assist with a year's study at the School for Graduate Nurses. Only graduates of the School of Nursing or Staff Nurses in connection with the Hospital are eligible and should apply to the Director of Nursing.

GOVERNMENT BURSARIES.—A limited number of bursaries are made available through the School by the Province of Quebec for nurses who wish to remain in the province.

KELLOGG FOUNDATION LOAN FUND.—Through the generosity of the Foundation, this fund has been established to assist graduate nurses who have unexpected expenses while registered in courses at the school. For further particulars applicants should consult the Director of the School for Graduate Nurses.

OPEN TO STUDENTS IN THE SCHOOL OF PHYSICAL AND OCCUPATIONAL THERAPY

For scholarships, bursaries, and loan funds open to undergraduates in all faculties see page 623.

OPEN TO DEGREE STUDENTS

NATIONAL SCHOLARSHIPS (see page 613).

OTHER ENTRANCE SCHOLARSHIPS (see pages 612 - 623).

UNIVERSITY SCHOLARSHIPS (see page 623).

CANADIAN PHYSIOTHERAPY ASSOCIATION BOOK PRIZE.—Awarded annually to the student with the highest standing in the final year of the Degree Course.

LIEUTENANT-GOVERNOR'S GOLD MEDAL.—Awarded to the student with the highest standing throughout the Degree Course.

SCHOLARSHIPS

OPEN TO DIPLOMA STUDENTS

DR. F. G. FINLEY BOOK PRIZE.—Awarded annually to the student with the highest standing in the Third year of the Diploma Course in Physical Therapy.

QUEBEC SOCIETY OF OCCUPATIONAL THERAPY BOOK PRIZE.—Awarded annually to the student with the highest standing in the practical application of Occupational Therapy in the Third year of the Diploma Course.

OPEN TO STUDENTS IN THE SCHOOL OF SOCIAL WORK

For scholarships, bursaries and loan funds open to undergraduates in all faculties see page 623.

NATIONAL SCHOLARSHIPS (see page 613).

CHARLES GAVSIE BURSARIES.—Four two-year bursaries of \$1,000 per annum have been established by Mr. Charles Gavsie for students in the School of Social Work. The awards are made by the Director of the School of Social Work to students who have the necessary qualifications for admission and who would be most likely to profit from professional training in Social Work.

A number of bursaries are available for each session.

Substantial financial assistance may be given under the Federal, Provincial Health Grants to students desiring to qualify in psychiatric and medical social work.

Similar assistance is also available through some Provincial Governments in Canada and State Governments in the United States. Prospective students, other than those from Quebec, interested in obtaining such financial assistance should make inquiry through their provincial or state government. Overseas students should inquire of their governments of the availability of United Nations and Colombo Plan Study Grants.

A limited number of bursaries supported by private organizations are available.

Fellowships, scholarships, and work-study plans are available through various private organizations such as the National Jewish Welfare Board and affiliated agencies. Inquiries regarding such funds should be made directly to the organizations.

While awards are made only to students of attainment and promise, the financial needs of applicants will receive consideration. Inquiries should be addressed to the Director.

STUDENTS IN VARIOUS SCHOOLS

Loans are available from the Social Work Alumni and Southam Loan Funds; from the Pi Beta Phi Loan Fund established for the use of students in financing their training or in meeting temporary or emergency needs and from a few private welfare organizations on arrangements made by the School.

Inquiries regarding University assistance, other than here mentioned, should be made to the Registrar of McGill University.

BERLINER STUDENT LOAN FUND (see page 633).

OTHER LOAN FUNDS (see page 632).

VI. MEDALS AND PRIZES IN THE DEPARTMENT OF ATHLETICS, PHYSICAL EDUCATION, AND RECREATION

I. FOR MEN

WICKSTEED MEDALS.—The Wicksteed silver and bronze medals for physical education (the gift of the late Dr. R. J. Wicksteed) are offered for competition to students of the graduating class and to students who have had instruction in the gymnasium for two sessions; the silver medal to the former, the bronze medal to the latter. The award of these medals is made by judges appointed by the University. The medal is not awarded to any student who fails in his examinations for the degree.

DR. F. W. HARVEY CUP.—Awarded to the winner of the Freshmen group in the Wicksteed Gymnastic Competition.

D. STUART FORBES TROPHY.—Awarded to the McGill student who, in the opinion of the Student's Athletics Council, has brought most credit to the University by reason of his athletic achievements.

DR. CHARLES F. MARTIN LAWN TENNIS TROPHY.—Presented by the late Walter Vaughan, a former Bursar, in honour of Dr. Charles F. Martin, this trophy is open for competition to undergraduate students of McGill University and is awarded to the winner of the annual singles competition. A miniature is presented to the winner for his retention.

WARREN HURD MEMORIAL TROPHY.—For the undergraduate half-mile champion in Track.

FOOTBALL TROPHIES

FRED WIGLE MEMORIAL TROPHY.—For the most sportsmanlike Senior Football player.

SCHOLARSHIPS

CLAIRE MUSSEN MEMORIAL TROPHY.—For the most valuable Intermediate Football player.

MCGILL TOUCHDOWN CLUB TROPHY.—For the most valuable Lineman in Senior Football.

LOIS OBECK TROPHY.—For the most improved Senior Football player of the year.

W. S. LEA MEMORIAL TROPHY.—For the most valuable Senior Football player.

HOCKEY TROPHIES

DR. BOBBY BELL MEMORIAL TROPHY.—For the most valuable Senior Hockey player.

BERT FYON TROPHY.—For the most improved player on the Senior Hockey Team.

L. FOR WOMEN

DR. CHARLES F. MARTIN LAWN TENNIS TROPHY.—Presented by the late Walter Vaughan, a former Bursar, in honour of Dr. Charles F. Martin, this trophy is open for competition to undergraduate students of McGill University and is awarded to the winner of the annual singles competition. A miniature is presented to the winner for her retention.

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McGill University

Montreal



**Faculty of
Arts and Science
1960-1961**

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Announcements of Faculties and Schools as follows:

General Announcement

School Certificate Examinations

Scholarships, Bursaries, and Loan Funds

Faculty of Arts and Science (Degrees in Liberal Arts and in Pure Science. There is a separate Announcement for the School of Commerce.)

Faculty of Medicine

Faculty of Medicine Postgraduate Courses

Faculty of Dentistry

Faculty of Engineering (Degrees in Engineering and in Architecture)

Faculty of Law

Faculty of Music

Faculty of Divinity

Faculty of Graduate Studies and Research

School of Commerce

Institute of Education

Library School

School for Graduate Nurses

School of Physical and Occupational Therapy

School of Social Work

Macdonald College (Faculty of Agriculture and School of Household Science)

French Summer School

Extension Courses

The Directory of Staff (University administrative officers, standing committees, and officers of instruction. For limited distribution.)

The Calendar (Available for distribution only to libraries and officials of certain institutions.)

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Faculty of Arts and Science

ADMINISTRATIVE OFFICERS

F. CYRIL JAMES, Chevalier de la Légion d'Honneur, B.Com., M.A., Ph.D.,
D.Sc., D. de l'U., D.C.L., LL.D., F.R.S.C. *Principal*

DAVID L. THOMSON, M.A., Ph.D., D.Sc., LL.D., F.C.I.C., F.R.C.S.
Vice-Principal

The Principal and Vice-Principal are ex officio members of Faculty

H. N. FIELDHOUSE, B.A. (Oxon.), M.A. (Sheffield), F.R.S.C., F.I.A.L.
Dean of McGill College

C. D. SOLIN, Ph.D. (Tor.), M.A. *Assistant Dean*

JEAN E. L. LAUNAY, Licencié-ès-Lettres, Diplômé d'Études Supérieures
(Paris), Agrégé de l'Université de France *Chairman, Humanities Group*

JOHN STANLEY, B.A. (U.B.C.), M.A., Ph.D. (Minnesota)
Chairman, Biological Sciences Group

C. A. WINKLER, O.B.E., M.Sc. (Man.), D.Phil. (Oxon.), Ph.D., F.C.I.C.,
F.R.S.C. *Chairman, Physical Sciences Group*

F. KENNETH HARE, B.Sc. (Lond.), Ph.D. (Montréal), F.R.G.S., F.R.Met.S.
Chairman, Social Studies and Commerce Group

D. E. ARMSTRONG, B.A., B.Com. (Alta.) *Director of the School of Commerce*

D. C. MUNROE, M.A. *Director of the Institute of Education*

VERNON ROSS, B.S. in Lib.Sci. (Columbia), M.A.
Director of the Library School

J. J. O. MOORE, A.B. (Missouri), M.A. (Denver), Ed.D. (Columbia)
Director of the School of Social Work

J. B. BIRD, M.A. (Cantab.) *Secretary of Faculty*

COUNCIL

The Dean, the Principal, and the four Group Chairmen form
the Council of Faculty

STANDING COMMITTEES OF THE FACULTY OF ARTS AND
SCIENCE

SESSION 1960-61

B.A. ADVISORY COMMITTEE

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SCIENTIFIC SUBJECTS

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CECIL CURRIE

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THE ASSISTANT DEAN

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KATHLEEN G. TERROUX
THE ASSISTANT DEAN

A complete list of the teaching staff of the University, including the Faculty of Arts and Science, is printed as a separate Announcement which may be obtained from the Registrar's Office.

The Faculty of Arts and Science

(McGILL COLLEGE)

THE FACULTY AND ITS DEGREES

The undergraduate work of the University in Arts, in Pure Science, and in Commerce is done in McGill College, usually called the Faculty of Arts and Science. The Dean of McGill College is the Dean of the Faculty of Arts and Science. The following degrees are awarded in Faculty:

Bachelor of Arts (B.A.),
Bachelor of Science (B.Sc.),
Bachelor of Commerce (B.Com.),
Bachelor of Education (B.Ed.),

In the case of the first three of these degrees, the Faculty offers both a General Degree and an Honours Degree.

The Library School and the School of Social Work are integral parts of the Faculty which, therefore, recommends, to Senate, candidates for the degrees of *Bachelor of Library Science* and *Master of Social Work*.

The work of students who are candidates for the degrees of Bachelor of Commerce and Bachelor of Education is supervised, under the Dean, by the Directors of the School of Commerce and of the Institute of Education, respectively. While the School and the Institute are integral parts of the Faculty, each has a separate Announcement.

APPLICATION FOR ADMISSION

All applications to enter the Faculty of Arts and Science must be made on forms which may be obtained from the Registrar's Office. Each applicant from a High School should see that a confidential report is sent from his Principal to the Registrar, since such a report is necessary for the consideration of the application. Completed applications must reach the Registrar before August 31st, but it is advantageous for students to submit formal applications in the Spring months, supplementing them, if necessary, with the required certificates as soon as these become available.

Each accepted candidate will receive a formal acceptance into a definite course and year, and this must be kept for presentation at Registration.

The number of admissions is limited and the College is not bound to accept applicants who have passed the required examinations.

ENTRANCE REQUIREMENTS

MINIMUM AGE

Except in special circumstances, no student under the age of sixteen is admitted to the First year, or under the age of seventeen to the Second year.

WOMEN STUDENTS

Women are admitted to the courses and to the degrees of the Faculty on the same terms as men.

Women students whose homes are outside Montreal must make application, before May 31st, to the Warden of the Royal Victoria College for residence. At the same time, they must submit their academic applications (even if these are incomplete). Forms for these purposes are obtainable from the College or from the Registrar's Office.

Those women students in the Faculty who do not reside with their parents or guardians in Montreal and who wish to live outside the University residences are required to submit their plans for residence, in writing, to the Warden and to obtain written approval. Students in this category who are entering the University for the first time must, in all cases, fill out residential application blanks when the academic application is submitted.

ENTRANCE REQUIREMENTS (For the Session 1960-61)

See General Announcement for details.

Students may be admitted into the Faculty, as regular undergraduates, after obtaining the necessary standing in the required papers of the McGill Junior or Senior School Certificate examination, or their recognized equivalents. Full details concerning these examinations are given in the School Certificate Examinations Announcement, which may be obtained from the Registrar's Office. *A student with incomplete matriculation qualifications is not admitted as a regular undergraduate.*

FIRST YEAR

A student may apply for admission to the First year of the undergraduate degree courses in the Faculty after obtaining the necessary standing in the appropriate subjects of the School Certificate Examination or in one of the examinations recognized by the University as the equivalent.

SECOND YEAR

A student may apply for admission to the Second year of these courses after obtaining the necessary standing in the appropriate papers of the

ARTS AND SCIENCE

School Certificate *and* Senior School Certificate Examinations or their recognized equivalents. Only in exceptional circumstances is a student who has not written and passed the School Certificate Examinations or their equivalent admitted by Senior School Certificate.

A student who has been admitted to the First year and who has failed to advance to the Second year is not permitted to obtain advanced standing by writing Senior School Certificate Examinations. Provided that he has not been excluded from further study for academic or other reasons, he is required to take the regular supplemental examinations of the First year if he desires to proceed in his course.

Students who are admitted to the B.A. course without having satisfied the requirement of the Classical Language must include a classical language in their programme for two years. All applications for exemption from the classics requirement must be submitted, in writing, to the Dean, prior to registration.

Candidates for admission to the University in the Second year of the B.A. course may offer, in place of Senior Matriculation Mathematics, another subject in which they have shown marked proficiency and which is in accordance with the trend of the studies which they are preparing to pursue. In general, however, students are advised to offer Mathematics. It is a prerequisite to all advanced courses in the Science division and must be taken if either Physics or Chemistry is included in the Senior Matriculation programme. It is also a required subject for students who intend to take courses in the Social Sciences, excluding History and Political Science. For this reason, unless a student intends to take Honours in one of the Humanities (English, Languages, Philosophy) or in Political Science or History, Mathematics is obligatory. In any case, no student will be permitted to offer another subject in place of Mathematics unless he or she has passed the Elementary Mathematics of the Junior School Certificate, or its equivalent, and has achieved at least 75% in the Junior School Certificate examinations in History, or a Modern Language, or Classics. Only a subject in which this 75% is obtained may be substituted for Mathematics. If they intend to pursue studies in History, Philosophy, or Political Science, candidates are expected to choose History as their substitute.

Students may be admitted to the Second year in the B.A. course with School Certificate German or Greek or Spanish as one of the five subjects required if they have not previously taken that subject for the School Certificate.

Full details of these examinations are given in the School Certificate Announcement which may be obtained from the Registrar's Office.

THIRD YEAR

A student may apply to enter the Third year by submitting application forms as for First and Second years together with the necessary certificates of attainment.

REGISTRATION

All First year students in the Faculty of Arts and Science will register on Thursday, September 15th, in the Sir Arthur Currie Memorial Gymnasium. Those in B.Sc. 1 and B.Com. 1 will register from 9.00 a.m. to 12 noon and those in B.A. 1 from 1.30 to 4 p.m. Students in the Second, Third, and Fourth years B.A., B.Sc., and B.Com. whose names begin with the letters A to L, and all students in the Third and Fourth years B.Ed. will register on Tuesday, September 20th from 9 a.m. to 4 p.m. and all students in the Second, Third, and Fourth years B.A., B.Sc. and B.Com. whose names begin with the letters M to Z, and all Partial students will register on Wednesday, September 21st from 9 a.m. to 4 p.m., in the Gymnasium.

The Freshman Welcome meeting will take place on Friday, September 16th.

All students who do not register on the day and time specified for them will be charged a late registration fee.

No student will be admitted after October 1st except by special permission of the Dean.

At the time of registration, women students in the Faculty will be required to fill out special forms for the Royal Victoria College, of which they are automatically members (see pages 308 to 311 of the General Information booklet enclosed with this Announcement).

Each regular undergraduate must be registered for the courses and year for which he has been accepted. Limited Undergraduates and Partial Students must obtain approval of their courses from the Admitting Officers before proceeding to register.

No undergraduate may attend classes in any course for which he is not registered. Students who withdraw during the session must cancel their registration on the official form provided at the Registrar's Office.

PERIOD OF STUDY FOR A DEGREE

The bachelor's degree may be obtained only by students who have regularly attended the prescribed courses for at least four years after being admitted into the First year, or for at least three years after being admitted into the Second year. Students are admitted into the Third year only in exceptional circumstances and at least two full years of resident study in the Faculty are ordinarily required before the bachelor's degree can be granted.

CLASSES OF STUDENT IN THE FACULTY

(1) *Regular Undergraduates* are students who have complete matriculation qualifications and who are taking the regular work of their year towards the appropriate degree.

(2) *Limited Undergraduates* are students who have complete matriculation qualifications but who find themselves unable, because of ill-health or other circumstances, to complete their degree work in the required four years. Such students may, with the Dean's permission, extend their course beyond the required period but must complete it within eight years.

Limited Undergraduates are not eligible for scholarships, medals, bursaries, or prizes of any description and may not read for an Honours degree.

(3) *Partial Students* are students who are not registered as proceeding to a degree but who are allowed to take one or more lecture courses. Partial students must obtain the Dean's permission to register and must satisfy the lecturer in the course concerned that they have sufficient ability to do the work in the course. Application may be refused because of limitation of space in lecture rooms and laboratories. A student who has tried, and failed, to pass matriculation is not allowed to register as a partial student except in special circumstances.

If a Partial Student hopes to secure credit for a course, he or she must fulfil all the requirements of classroom work and tests which are prescribed for that course for regular students.

A Partial Student who has successfully passed the courses of a previous year is not necessarily accepted at a later session.

Subject to the above limitations, lectures are open to Partial Students in both Honours and General classes. Such a student may request the Registrar to issue a certificate stating that he has followed certain courses and showing his class standing in each. Work taken by a Partial Student cannot, however, be counted towards a McGill degree without a special vote of Faculty.

Partial Students are not eligible for scholarships, bursaries, medals, or prizes.

COMMON FIRST YEAR

A student who is qualified by matriculation to proceed to both the B.A. and the B.Sc. degree and who does not know, at the beginning of his First year, which degree he desires to obtain, may qualify to enter the Second year leading to either of these degrees by selecting Option C of the First year of the B.A. course.

ATTENDANCE, EXAMINATIONS, AND ADVANCEMENT

The attention of students is called to a pamphlet entitled *Regulations Governing Attendance, Examinations, and Advancement* issued by the Faculty of Arts and Science. Copies are distributed at the time of registration. Extra copies may be obtained through the Dean's office.

HIGH SCHOOL DIPLOMA

Students who wish to qualify for the High School Diploma of the Province of Quebec have to fulfil certain additional requirements in both the First and Second years. See Announcement of the Institute of Education.

SUBJECTS AND COURSES REQUIRED FOR THE DEGREE OF BACHELOR OF ARTS

In the session 1959-60, the Faculty of Arts and Science was authorized to introduce a new curriculum for the General Degree of Bachelor of Arts. All candidates for the degree, therefore, who are admitted to the First year of the General B.A. Course for the Session 1960-61, will proceed under the provisions of the New Curriculum (pages 1015 - 1019).

Candidates who are admitted, or who are advancing, to the Second, Third and Fourth years, for the session 1960-61, will proceed under the provisions of the old Curriculum (pages 1019 - 1020).

THE NEW CURRICULUM

1. The subjects in which candidates may offer themselves for examination are divided into two Groups of subjects in Arts and one Group of Biological and Physical Sciences. Subjects in which instruction is *not given* in the First year are printed in italics.

GROUP I.

English; *Fine Arts*; *Philosophy*; Music.
Greek; Latin.
French; German; Russian; Spanish; Italian.
History.
Mathematics.

GROUP II.

Anthropology; Economics; History; *Political Science*; *Sociology*.
Geography (Arts Division); *Psychology* (Arts Division).
Mathematics.

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GROUP III.

Biochemistry: Botany; *Genetics*; *Physiology*; *Zoology*; *Bacteriology*.
Chemistry; *Geology*; *Physics*.
Geography (Science Division); *Psychology* (Science Division).

2. *Specific Requirements*:

(i) Every candidate for the degree must offer himself for examination in a foreign language.

A student who offers himself for examination in a foreign language which he offered successfully at matriculation, will pursue the study of this language in the First and Second years.

A student who, to satisfy this requirement, offers himself for examination in a foreign language which he did not offer successfully at matriculation, will pursue the study of this language in the First, Second and Third years.

A student who has been admitted to candidacy for the degree without fulfilling the Classical requirement of matriculation, must pursue the study of a classical language for two years *in addition* to the courses which are required to satisfy the Foreign Language Requirement.

(ii) Every candidate for the degree must include an approved course in English Literature in his curriculum. He may satisfy this requirement by including English 100 in his choice of First year subjects, or by including English F in his choice of subjects in later years.

(iii) In the Third year, all candidates will include Part I of the Faculty Course and, in the Fourth year, Part II of the Faculty Course, in their curriculum.

(iv) At the beginning of the Third year, the candidate will select two Cognate Subjects, i.e. two subjects from Group I or two subjects from Group II. Such Cognate Subjects must be chosen from subjects which the candidate has selected in his Second year. In the Third year, he will include in his curriculum, at least, one course in each of his Cognate Subjects: and, in the Fourth year, he will include, at least three courses in the same subjects: two in one subject, and one in the other.

Note that, for purposes of this stipulation, it is permissible to select Philosophy from Group I with either Economics or Political Science from Group II.

3. Candidates who wish to include the study of biological or physical science, beyond the First year, in the curriculum for the degree, may do so, provided that they follow an approved sequence through the First, Second and Third years, as follows:

B.A. CURRICULUM

FIRST YEAR	SECOND YEAR	THIRD YEAR
Mathematics 111, 113 or 216	Physics 11	Mathematics 224 or Physics 22 or Chemistry 11
Geology 121	Geography 231	Geography 416
Biology 100	Psychology 21	Psychology 34
Biology 100	Botany 21 or 22	Botany 44a and 11b
Biology 100	Genetics 21 or Zoology 211	Zoology 337 or Zoology 221 or Physiology 21
Physics 11	Chemistry 11	Chemistry 22
Chemistry 11	Chemistry 22	Physiology 21 or Bacteriology 21

N.B. The sequence Physics 11, Chemistry 11, Chemistry 22 is open only to candidates who have selected Mathematics as a subject for study in the First year.

The sequence Chemistry 11, Chemistry 22, Physiology 21, Bacteriology 21, is open only to candidates who have selected Option C in the First year.

It is not permissible to select any one of Geography, Mathematics or Psychology both as a Cognate Subject and as part of a Science sequence.

THE CURRICULUM:

THE FIRST YEAR:

Five courses chosen according to one of the following Options:

Option A.

- Greek or Latin.
- English or French.
- A third subject from Group I.
- A fourth subject from Groups I and II.
- A fifth subject from Groups I, II and III.

Option B.

- Greek or Latin or Mathematics.
- Economics or Geography or History.
- A third subject from Group II.
- A fourth subject from Groups I and II.
- A fifth subject from Groups I, II and III.

Option C.

- Biology; Chemistry; English; Mathematics; Physics.

ARTS AND SCIENCE

N.B.

(i) In making their selection of subjects, candidates will take account of the Foreign Language and English Literature Requirements. Candidates who select Option C will begin the sequence of courses, which is required to satisfy the Foreign Language Requirement, in the Second year.

(ii) Students who propose, subsequently, to enter an Honours Course, should consult the First year requirements of the Department, or Departments, in which they propose to read Honours.

THE SECOND YEAR:

Five courses:

Either: One full course selected (with due regard to Departmental prerequisites and to the Foreign Language and English Literature Requirements) from each of FIVE subjects in Groups I and II.

Or: One full course selected (*with regard to the same requirements*) from each of FOUR subjects in Groups I and II, and the Second year course in the Science Sequence begun in the First year.

In making his selection of subjects, the candidate should remember that the Cognate Subjects which he is to study in the Third and Fourth years must be chosen from subjects selected in the Second year.

THE THIRD YEAR:

Five Courses:

(1) the Faculty Course, Part I.

(ii) Two courses, one from each of the Cognate Subjects of the candidate's choice.

(iii) *Either* Two courses which (with due regard to Departmental prerequisites and to the Foreign Language and English Literature Requirements) may be selected from any subject in Groups I and II.

Or One such course and the Third year course in the Science Sequence begun in the First year.

THE FOURTH YEAR:

Five Courses:

(i) The Faculty Course, Part II.

(ii) Two courses in the first Cognate Subject.

(iii) One course in the second Cognate Subject.

(iv) One course selected (with due regard to Departmental prerequisites and to the Foreign Language and English Literature Requirements) from any subject in Groups I and II.

NOTE:

(a) An approved course in Religion may be substituted for an Elective Course in the Third and Fourth year.

(b) Save in cases in which it forms part of an approved Science Sequence, no First year course may be offered by candidates in the Third or Fourth year.

THE FACULTY COURSE:

The Faculty Course will be a synoptic one which will enlarge and synthesize the various more specialized studies which the candidate will have made in his departmental courses.

It will deal with the successive conceptions of the nature of man and of the world in which he lives; with the relation between these conceptions and actual institutions, economic, political and religious; with theories of freedom and authority and their social and political implications; with the chief intellectual and imaginative works of man and with the changes in his standards in these matters; with traditional ideas of knowledge and the effects on them of the empirical findings of modern science.

THE OLD CURRICULUM (SECOND, THIRD AND FOURTH YEARS)

At the beginning of the Second year, a student proceeding to a General B.A. degree must choose two subjects from those listed below in Division I. These two subjects are designated *Continuation Subjects* and are to be studied during the Second, Third, and Fourth years. A full course (or two half-courses) must be taken *each* year in each of the Continuation Subjects. The additional courses necessary to make the total of five for Second year, and four for each of the Third and Fourth years, may be chosen from any of the subjects shown in either Division I or Division II below. In choosing his elective courses, the student may seek the advice of one of the departments in which he chooses a continuation course. A student may select only those courses for which he has the prerequisites laid down by the department in which such courses are given, and he is responsible for seeing that the courses chosen do not conflict with each other as regards hours of lectures or laboratory periods.

When the student's record during his Second, Third, and Fourth years of the General Course averages a high second class standing, a special award of *Distinction* is made at graduation. When the record averages first class standing, the award made is *Great Distinction*.

ARTS AND SCIENCE

Division I (Continuation)

Anthropology	Latin
Economics	Mathematics
English	Philosophy
Fine Arts	Physics (when taken as a Continuation Subject with Mathematics)
French	Political Science
Geography	Psychology
German	Russian
Greek	Sociology
History	Spanish
Italian	

Division II (Elective)

Subjects in Division I and:

Ancient History	Geology
Bacteriology	Linguistics
Biochemistry	Music
Botany	Physics
Chemistry	Physiology
Education	Religion
Genetics	Zoology
Geography	

A course intended primarily for First year students may be counted as a full course in the Second year.

Students who are pursuing a double course in Arts and Science and Divinity (six years at least) may, in the Third and Fourth years, take the courses which constitute the ordinary curriculum in Arts and Science, less a half course each year or a whole course in one year.

Honours lecture courses are open to properly qualified general students.

SUBJECTS AND COURSES REQUIRED FOR THE DEGREE OF BACHELOR OF SCIENCE

An undergraduate may proceed to either a General or an Honours B.Sc. degree. As the distinction between these is not made until the Second year (or, in some cases, the Third year), there is a common curriculum to be followed by all First year students.

THE FIRST YEAR OF THE B.Sc. COURSE

(FOR BOTH GENERAL AND HONOURS DEGREES)

(a) Compulsory Courses:

English 100
Mathematics 111
Physics 11
Chemistry 11

(b) Electives:

Botany 100a (or b) and Zoology 100a (or b)
or one of the following, if the timetable permits:
Economics 100
Fine Arts
French
Geography 121
Geology 121
German 3
Greek
History
Italian
Latin
Music
Russian
Spanish

More advanced courses are available also in Chemistry, Mathematics, and Physics for those specially qualified or contemplating Honours.

THE GENERAL B.Sc. CURRICULUM IN THE SECOND,
THIRD, AND FOURTH YEARS

In each of these years, five courses are required; these courses must be spread over at least four subjects, and must be selected from the groups given below. The student is also required to pursue a continued study of two subjects during the major part of his last three years for the General degree. The normal sequence of courses in any subject chosen for continuation is shown in Group I below. Since courses in Bacteriology, Biochemistry, and Physiology are usually begun in the Third year, a student is not obliged to choose these subjects for continued study until the beginning of his Third year; in other cases, he will commence his continuation subjects at the beginning of his Second year. In any year, a specially qualified student may be allowed, upon the recommendation of the department concerned, to substitute a more advanced course for any of those listed.

ARTS AND SCIENCE

SECOND YEAR REQUIREMENTS

Three Science subjects from Group I; one Arts course from Group III; and one course from Group I or II or III.

THIRD YEAR REQUIREMENTS

Two Science subjects from Group I; one further subject from Group I or II; one Arts course from Group III, and one course from Group I or II or III.

FOURTH YEAR REQUIREMENTS

The same as for Third year, the two subjects previously chosen from Group I being continued throughout this year. It is permissible, however, to drop one of these continuation subjects in the Fourth year provided that two courses be taken in the remaining continuation subject; in this case the student's courses may be spread over three instead of four subjects.

GROUP I (Continuation Subjects)

SUBJECT	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Bacteriology	21	21	42, 43a
Biochemistry	See below	31, 37	37, 43, 44 or 45
Botany	11b or 21 or 22 or 23	21 to 45	21 to 45
Chemistry	21, 22, 23, 24	21, 22, 23, 24	31, 32, 35
Genetics	21	32a, 32b, 36 and 45	42b to 47b inclusive
Geography	221, 231	321, 414	416, 421
Geology	121 or 221	221-444	221-444
Mathematics	224	323, 329, 330	323, 329, 330, 435
Physics	22	23, 24, 25, 27b	(32, 35a), (43a, 44b), (35a, 47a), (35a, 44b)
Physiology	21	21, 31	31, 41, 42
Psychology	21, 22a or 22b	32, 34, 36, 37	43, 46, 48
Zoology	211, 221	221, 322, 324, 325, 332, 337, 343, 345, 446	324, 325, 337, 341, 433, 435, 446

GENERAL B.Sc. CURRICULUM

If Biochemistry is to be taken as a continuation subject in the Third year, Chemistry 22 and Physiology 21 must be taken in the Second year.

A student who has not completed Botany 100a (or b) and Zoology 100a (or b) must obtain permission from the department concerned before proceeding to more advanced courses in Botany or Zoology.

Students who select Physics as a continuation subject must also select the following Mathematics courses: 224 or 225 in Second year; 330 in Third year or in Fourth year.

GROUP II (Non-continuation subjects)

SUBJECT	COURSES
Bacteriology	31
Biochemistry	31, 44
Botany	11b to 41
Chemistry	21, 22, 23, 24, 31, 32, 35
Crystallography	1a, 2b (listed under Geology)
Geography	121 to 421
Geology	121 to 444
Genetics	21 to 47a or b
Histology	Anatomy 1a
Mathematics	216; 224; 329; 330; 443; 435
Physics	21, 22, 23, 24b, 25, 32, 35a, 43, 44b
Physiology	21, 31, 32, 41, 42, 43, 44
Zoology	100, 221, 324, 325, 332, 337, 343, 345, 435, 446a.

GROUP III (Arts subjects)

Economics	Latin
Education	Music
English	Philosophy
Fine Art	Political Science
French	Psychology
Geography	Religion
German	Sociology
Greek	Russian
History	Spanish
Italian	

B.Sc. students who select Geography or Psychology as a Continuation Subject may not select the same subject from Group III.

In selecting advanced courses, students should consult the Departments concerned.

Details of the courses are given on pages 1032 to 1172.

When the student's record during his Second, Third, and Fourth years of the General Course averages a high second class standing, a special award of *Distinction* is made at graduation. When the record averages first class standing, the award made is *Great Distinction*.

GENERAL REGULATIONS GOVERNING THE HONOURS DEGREE

The course for the Honours degree is distinguished from that of the general degree rather by quality than by quantity. In a very few cases, the honours curriculum may be regarded as providing pre-professional training and, in almost all Departments in which honours work is given, it forms a bridge between undergraduate training and graduate; but it is governed fundamentally by the belief that a relatively intense study of one field, not too narrowly limited, is the best medium of *general* education. A student who has gone sufficiently far in the study of one subject to have become aware of the assumptions on which that study rests and of the difficulties which its methods have been shaped to meet, and who has been introduced to the kind of material with which more advanced work in the subject is concerned, has probably undergone a better general mental discipline than the student who has sampled a variety of useful, but not very deeply developed, studies. While the honours curriculum, therefore, may be thought to be 'narrow', in the sense that the student is directed, in the latter years of his course, to the study of one or two subjects only, it is 'broad' in the sense that its purpose is to provide a more acute and discriminating, because more unified and systematic, intellectual training than is possible under the condition of the general degree.

Since the aim of the Honours curriculum is to develop critical and analytical ability, as distinct from, and in addition to, the imparting of information, it requires the student to exercise his own initiative and to develop the capacity to do much of the work for himself under guidance and direction. Part of the work (the situation varies as between Departments) dispenses with formal lectures and proceeds by group, or individual, tutorials, so that the student reading for the Honours degree enjoys close and continuous supervision of his work by individual tutors.

The conditions for entering Honours courses in Second year are as follows:

(a) The sanction of the Dean and of the departments in which Honours are elected must be obtained.

(b) No student may take Honours in a subject in which he has failed to attain at least second class standing in his First year.

Honours students who fail to attain second class honours standing at the end of the Second or Third year must revert to the General course in their next and following year or years and fulfil its requirements unless they obtain special leave to continue their Honours work from the department or departments interested.

An Honours student who has failed in any subject in the Third year examinations is not allowed to continue his Honours course except with the consent of Faculty.

A student's whole record during his Second, Third, and Fourth years will be considered in awarding Honours at graduation.

Students in Honours courses who fail to attain Second Class Honours at graduation must revert to the list of General students and, if they are unable to satisfy the requirements of the General degree, they will not be granted a degree.

Honours are awarded by Faculty on the recommendation of the department or departments in which Honours are elected.

THE HONOURS B.A. CURRICULUM IN THE SECOND, THIRD, AND FOURTH YEARS

Undergraduates may read for the Honours B.A. in any one of the following single subjects:

Classics	History
English	Latin
French	Mathematics
Geography	Philosophy
German	Psychology
Greek	

They may also read for the degree in the following combinations of two subjects:

- Anthropology and Sociology
- Economics and Political Science
- Mathematics and Physics
- Various combinations of the single subjects given above

ARTS AND SCIENCE

In the case of Honours in a single subject (e.g. English) the detailed description of the curriculum will be found under the appropriate Department.

In the case of Joint Honours in two subjects, the detailed description of the curriculum will be found under that one of the two Departments which has alphabetical precedence. Thus, Joint Honours in English and History is described under the Department of English (since "E" precedes "H") but Joint Honours in History and Political Science is described under the Department of History (since "H" precedes "P").

THE HONOURS B.Sc. CURRICULUM IN THE SECOND, THIRD, AND FOURTH YEARS

Honours courses begin normally in the Second year and are offered in the subjects listed below. Information as to courses to be taken can be found at the end of the descriptive material listed by the appropriate department on pages 1032 to 1172.

Attention is drawn to the fact that lectures are not given on all parts of the work. The examinations for Honours are not necessarily conducted exclusively by the persons who have given the courses.

HONOURS COURSES OFFERED FOR THE B.Sc. DEGREE

Bacteriology and Immunology	Geography
Biochemistry	Geological Sciences
Botany	Mathematics
Chemistry	Physics
General Honours in	Physiology
Biological Sciences	Psychology
Genetics	Zoology

Various combinations of the single subjects given above.

GENERAL HONOURS IN BIOLOGICAL SCIENCES

As indicated above, students may proceed to an Honours degree in some one of the various Biological Sciences. Alternatively, they may proceed to an Honours degree in *General Honours in Biological Sciences* (as described below), postponing specialization in a particular Science (including Genetics), until postgraduate years. This General Honours course provides a balanced study of the Plant and Animal Kingdoms, with a suitable admixture of Genetics, and is a basic training in plant and animal studies. It is of value to pre-teacher, pre-dental, and pre-medical students, and for those who have an interest in the Biological Sciences, but who do not wish for the marked specialization of an Honours degree in a single Science.

PRE-PROFESSIONAL TRAINING

Students who obtain a high second class average in this course are eligible for admission (with approval) to the Faculty of Graduate Studies and Research, but they may have to spend additional time in fortifying their knowledge of a particular field.

CURRICULUM OF GENERAL HONOURS IN BIOLOGICAL SCIENCES

Note: Students are reminded that courses chosen in any one year may affect the taking of other courses in subsequent years. *It is essential for this course that Botany 100a (or b) and Zoology 100a (or b) should be taken in B.Sc. 1.*

Students must apply for entry to this course to the Chairman of the Biological Sciences Group, and must obtain his approval before they will be permitted to register for this General Honours Course.

Prerequisite General First year B.Sc. with the required standing (at least Second Class). Botany 100a (or b) and Zoology 100a (or b) must be taken.

2nd year Botany 22a and 22b; Chemistry 22; Genetics 21; Zoology 221.

3rd year Botany 11b, 22a and 22b, 23a, 31; Physiology 21; Zoology 211, 322.

4th year Bacteriology 31; Biochemistry 31; Genetics 32a, 36b; Zoology 324 or 332 plus a fifth course in the form of a free option from the list below.

Free options (to be taken where indicated)—

Botany 23b, 32, 33; an English course beyond English 100; a French course; Genetics 44 or 45; Geography 121; Geology 121; a German course; Philosophy 310; Physics 21; Psychology 21; Zoology 325 or 343.

CONCERNING STUDENTS WHO INTEND TO PROCEED INTO THE PROFESSIONAL FACULTIES

Each regular undergraduate in the faculty is required to register for one of the bachelor's degrees offered, and, unless otherwise instructed by the Dean, must follow the regular work of his year towards this degree.

Although there are no specially organized courses for preparing candidates for other faculties, it is possible to include the prerequisites to entrance to these faculties within the framework of the B.A. and B.Sc. curricula. Students intending to enter one of these faculties later should acquaint themselves with the entrance requirements as shown in the individual Announcements.

ARTS AND SCIENCE

Students proceeding into the Professional Faculties should note particularly that admission to these Faculties is not automatic: regular application forms must in all cases be submitted in advance of the prescribed dates, accompanied by such other documents as the Faculties may require.

DENTISTRY: At least two years of the B.A. or B.Sc. courses are required for entrance to First year Dentistry. If a student wishes to enter after two such years he must take Physics 11 and Chemistry 11 in his First year in Arts and Science; the other subjects required are Chemistry 22 and Botany 100a (or b) and Zoology 100a (or b).

LAW: A minimum of two years in the Faculty of Arts and Science is required for admission into the Faculty of Law. Nevertheless, candidates proceeding to the Bar of the Province of Quebec must be British subjects, hold the degree of B.A. from a Canadian or British University and satisfy the Bar examiners that they have successfully completed "the regular course in Philosophy" in an approved university. Students are advised to take this course in Philosophy before entering the Faculty of Law. The following courses are available: Philosophy 200, 300, 310 and 320 (see page 1118). In addition candidates are expected to have a working knowledge of French.

MEDICINE: The Faculty of Medicine offers the following advice to students proceeding in pre-medical studies at McGill:

1. Absolutely required are courses in Physics, General and Organic Chemistry, and Biology. These requirements can be met by passing Physics 11; Chemistry 11 and 22; and Botany 100a (or b) and Zoology 100a (or b).

2. Other courses chosen for three pre-medical years should be so planned as to give the student more than elementary training in some definite field of knowledge, which may be selected from the Humanities, the Social Sciences, or the Physical or Biological Science. The curriculum for the three years should therefore be planned as a whole, so as to emphasize the selected field. Study in this field should be continued by students who fail to gain admittance to medicine after three years.

3. The curriculum must be in harmony with the requirements of the Faculty of Arts and Science or the B.A. or B.Sc. degree. English 100 and Mathematics will be taken in the First year. Continuation subject requirements must be complied with, and these subjects should be related to and reinforce each other, in the spirit of paragraph 2.

4. Students taking a pre-medical course within the B.A. curriculum are advised to take English, Mathematics, Physics, Latin and an elective course (preferably leading to the field of specialization) in the First year; Chemistry 11 and Botany 100a (or b) and Zoology 100a (or b), the

continuation subjects, and a modern language in the Second year; Chemistry 22, two courses in one continuation subject and one in the other, in the Third year.

5. Students entering through the B.Sc. curriculum will ordinarily complete the required courses (paragraph 1) very quickly and can proceed to specialize in the selected field. Those who expect to enter Medicine after three years are advised against taking prematurely the medical subjects such as Physiology, Biochemistry, Bacteriology, and Histology. There is, however, a definite place in Medicine for students who have completed an Honours course or a Master's degree in one of these sciences, or in Chemistry, Physics, etc.

6. Courses which are of value as preparation for medical studies, and of which some may be taken as electives or as extras if the curriculum in the major field permits, include Botany 100a (or b) and Zoology 100a (or b), Psychology 21, Sociology 210, Genetics 21, Zoology 211, 221, 324, 325.

7. The Medical College Admission Test, conducted by the Educational Testing Service, should be taken in the second term of the Second year or the first term of the Third year.

DOUBLE COURSE IN SCIENCE AND MEDICINE

Beginning with the session 1960-61, a limited number of candidates may be admitted, on successful completion of junior matriculation, to a Double Course in Science and Medicine. For details of this course see the Announcement of the Faculty of Medicine, page 1606.

B.A. AND B.Sc. DEGREES FOR STUDENTS IN MEDICINE AND DENTISTRY

Students who have completed with good second class standing three years of the General Course leading to the Arts degree and two years in the Faculty of Medicine or Dentistry will, on application, be recommended by the Faculty of Arts and Science for the B.A. degree, if they have satisfied all the specific requirements of the First, Second, and Third years for the B.A. degree as to subjects, and in each of the Second and Third years taken three courses in Arts subjects so chosen as to fulfil the requirement of continuation study or its equivalent.

Students completing three years in the course leading to either the Arts or the Science degree and two years in Medicine or Dentistry are entitled to apply to the Faculty of Arts and Science for the degree of B.Sc. Students will not, however, be recommended for the B.Sc. degree unless they have satisfied the specific requirements for that degree or their equivalent. Students with high distinction in the first years of the B.Sc. course who maintain that standing in the first two years in Medicine at McGill will be granted the degree with Distinction or Great Distinction.

SUMMER SCHOOL IN FRENCH

The French Summer School is held every year, commencing in the final week of June and lasting six weeks.

Its courses are distributed among three Sections: A, B, and C, one of which, Section A, is below college standard. They deal with the various aspects of language study as well as literature and civilization. Courses in spoken French are divided into small classes for the purpose of intensive oral drill. In this respect the School definitely supplements the instruction given in the Department in the winter session, when such oral practice is only incidental to the subject-matter of the courses offered and is never the primary objective. It should be noted that the First year course given in the French Section of the Department of Romance Languages is not a beginner's course and is conducted entirely in French. (The standard qualification for admission into Section A is two years of High School French.)

For this reason, students who find it difficult to understand, speak, or write French are recommended to avail themselves of the special facilities which the School offers in its three sections, and particularly in Sections A and B for a systematic study of the language, oral and written. Section C is specially intended for graduate students or students interested in pursuing higher studies in French.

With the permission of Faculty, courses in Sections B and C may be counted towards the Bachelor's degree in cases where students need to make up the number of courses normally required for the degree. Students in Section C, who attend the School for at least four sessions and satisfy the requirements, can obtain an M.A. in French without having to reside at McGill during any of the winter sessions.

Students receive most benefit from the courses offered by the School if they choose to reside in one of the French Houses, where the use of French at all times is compulsory. Members of the teaching staff live in residence with the students and are constantly in helpful and friendly relationship with them. This informal education through daily association in the Common Room, at meals, and in social activities—which include sports, music, dramatics, and conducted visits through the beauty-spots of the Province of Quebec—is one of the most valued features of the School.

Reduced railway fares from all points in Canada have been arranged.

Applicants should address their inquiries to: The Director, French Summer School, Arts Building, McGill University, Montreal 2.

F E E S

The regular and special fees payable by students in the Faculty of Arts and Science, including the School of Commerce, are shown below. The University reserves the right, however, to make changes without notice in its published scale of fees if, in the opinion of the Board of Governors, circumstances so require. Fees are not refundable, except under special conditions as described in the General Information Pamphlet.

T U I T I O N

REGULAR UNDERGRADUATES

Sessional Fee: Arts.....	\$425.00
Science.....	475.00
Commerce.....	425.00
Courses repeated or substituted by Conditioned Students, per full course.....	10.00

LIMITED UNDERGRADUATES AND PARTIAL STUDENTS (Arts, Education, Science, Commerce)

Each full course (Arts, Education, and Commerce).....	\$115.00
(Science).....	125.00
Each half course (Arts, Education, and Commerce).....	57.50
(Science).....	62.50
Courses in Physical Education taken by Partial Students in Arts, per hour, per week.....	5.00

For further particulars concerning fees of all kinds, and the governing regulations, see the General Information Pamphlet which is included in this Announcement.

PAYMENT OF FEES

Fees are due and payable at the Accounting Office during the hours 9:00 a.m. to 4:00 p.m., Saturday 9:00 a.m. to 12 noon, from Thursday, September 15th to Friday, September 30th, inclusive. If desired, fees may be remitted by mail on or before the due dates.

A late fee of \$2.00 is charged for payment after the specified dates.

Courses of Lectures in Arts and Science

The following pages show the courses offered in the Faculty arranged according to Departments. These courses are listed by numbers and where a small letter follows a number the term in which the course is given is indicated: e.g., History 315a is given in the first term (October to January), History 315b in the second term (January to April).

In addition the words "full course," "half course," etc. indicate the course value. The letter L indicates laboratory and S a special course.

Unless otherwise stated, a full course begins in October and ends in April, whereas half courses are given in the term indicated. The number of hours of lectures given each week is shown immediately below the number of the course, and laboratory or conference hours are indicated separately.

An official time table is available at the registration period; any times shown herein are only tentative.

It is the responsibility of each student to make sure at the time of registration that there is no conflict in the timetable of the courses which he proposes to follow.

Any course may be cancelled because of insufficient registration.

ANATOMY

Professors

C. P. LEBLOND, *Chairman*

C. P. MARTIN

J. LANGMAN

Associate Professor

S. M. BANFILL

Assistant Professor

Y. CLERMONT

Research Associate, Demonstrator

H. ISLER

Lecturers

E. W. WORKMAN

L. HELLER

I. SMART

Teaching Fellows

B. PEREY

N. J. NADLER

Before registering for the following course, students must consult the Chairman of the Department to ensure that they are qualified to undertake the work.

BACTERIOLOGY AND IMMUNOLOGY

MICROSCOPIC ANATOMY

6. **HISTOLOGY** (Half course). The course, which is part of the medical curriculum, consists of three weekly classes during the first half year. The course begins at the opening of the medical session, in September.

Three lectures and six hours laboratory per week, from approximately September 6th to the end of February.

Texts: Ham, Histology; Bailey, Textbook of Histology or Maximow and Bloom, Histology.

BACTERIOLOGY AND IMMUNOLOGY

Professor

R. W. REED, *Chairman*

Associate Professors

G. G. KALZ

J. W. STEVENSON

Assistant Professors

FRITZ BLANK

C. A. BUTAS

A. M. MASSON

B. H. MATHESON

S. I. VAS

Lecturers

S. JUHASZ

L. KAPICA

H. D. KING

E. MANKIEWICZ

O. MORGANTE

S. NOMMIK

F. H. PRISSICK

R. SHILOV

Teaching Fellow

E. L. MEDZON

In addition to its courses in the Faculty of Medicine the Department offers the following to students in the Faculty of Arts and Science:

21. **ELEMENTARY BACTERIOLOGY AND IMMUNOLOGY** (Full course). First offered in 1960-61. Available to Second and Third year students.

An introduction to the morphology, physiology and classification of the major groups of bacteria. The applications of bacteriology in medicine, agriculture and industry are discussed and the student is introduced to the elementary principles of applied immunology.

Both terms: Two lectures and five hours laboratory per week.

Prerequisites: First year Science with Botany 100a (or b) and Zoology 100b (or a). Chemistry 22 to be taken concurrently.

Text: Frobisher, Fundamentals of Microbiology, 6th Ed. (Saunders), 1957.

ARTS AND SCIENCE

42. ADVANCED MICROBIOLOGY (One and a half courses). A systematic study of bacteria, viruses and medically important fungi. This class is limited in size and priority is given to Honours students in the biological sciences.

Both terms: 3 lectures, 2 three hour laboratory classes.

Prerequisites: Bacteriology 31, Biochemistry 31.

Text: Topley & Wilson, Principles of Bacteriology and Immunology, 4th Edition (Arnold) 1956.

- 43a. IMMUNOLOGY (Half course). A study of the fundamental aspects of antigen-antibody reactions and their practical applications.

Second term: One lecture, 2 three hour laboratory classes.

Text: Carpenter, Immunology and Serology (Saunders), 1956.

46. SEMINARS IN MICROBIOLOGY AND IMMUNOLOGY (Full course). Open only to Honours students in Bacteriology and Immunology.

CURRICULUM FOR B.Sc. HONOURS IN BACTERIOLOGY AND IMMUNOLOGY

Prerequisite: An aggregate standing of high second class must be obtained in the subjects of the First and subsequent years. The Chairman of the Department must be consulted in selecting subjects to be studied in the Second, Third and Fourth years. The recommended courses of study have been found suitable for most students but may be modified to suit individual cases. The honours curriculum is to be revised progressively over the course of the next three years starting with the introduction of a course in the Second year in the 1960-61 session. For this reason it has been necessary to present two schedules, one for students entering Second year in the 1960-61 session and one for those entering the Third year.

1. *Honours curriculum for students entering the Second year in the 1960-61 session.*

First year: First year B.Sc. with Botany 100a (or b) and Zoology 100a (or b).

Second year: Bacteriology 21; Chemistry 22 and 24; Genetics 21; Zoology 221.

Third year: Bacteriology 32; Biochemistry 31; Botany 23; Physiology 21; Zoology 322.

Fourth year: Bacteriology 43, 44, 45a, 46; Biochemistry 45; Genetics 42b.

2. *Honours curriculum for students entering the Third year in the 1960-61 session.*

First year: First year B.Sc. with Botany 100a (or b) and Zoology 100a (or b).

Second year: Chemistry 22 and 24; Genetics 21; Physiology 21; Zoology 221.

Third year: Bacteriology 21; Biochemistry 31; Botany 23; Zoology 322; one course elective.

Fourth year: Bacteriology 32; 43a; 45a; 46; Biochemistry 45; Genetics 42b; one half course elective.

Honours students entering the Fourth year in the 1960-61 session will follow the schedule outlined in the 1959-60 calendar, i.e. Bacteriology 42, 43a, and 46, Biochemistry 45, Genetics 42b and an elective half course.

NOTE: The following are new courses not listed in the present calendar which will be offered in the years indicated in the foregoing schedules: 32, Systematic Bacteriology; 43, Advanced Immunology; 44, Microbial Physiology and Special Techniques in Microbiology; 45a, Viruses and Rickettsiae.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

BIOCHEMISTRY

Professors

K. A. C. ELLIOTT, *Chairman*

D. L. THOMSON

J. H. QUASTEL

Associate Professors

O. F. DENSTEDT

M. SAFFRAN

Assistant Professors

E. H. CREASER

E. A. HOSEIN

D. RUBINSTEIN

P. G. SCHOLEFIELD

31. GENERAL BIOCHEMISTRY (Full course). A general survey of the chemical constituents of organisms and the reactions they undergo in biological systems.

3 hours.

Professor Saffran

Prerequisite: Chemistry 22a and b. Physiology 21 recommended.

Text: White, Handler, Smith and Stetten, Principles of Biochemistry (McGraw-Hill).

ARTS AND SCIENCE

37. LABORATORY METHODS IN BIOCHEMISTRY (Full course). Principles and practice of current methods of biochemical analysis.
1 lecture and 6 hours laboratory. *Professor Saffran*
The Department issues laboratory instructions.
Prerequisite: Biochemistry 31 (may be taken concurrently). Chemistry 23 recommended.
43. ADVANCED BIOLOGICAL CHEMISTRY (Full course). A detailed study of the organic chemistry and metabolic interrelationships of amino acids, proteins, carbohydrates, lipids, steroids and other biologically important substances.
3 hours. *Professor Denstedt*
Prerequisite: Biochemistry 31.
Text: Fruton and Simmonds, General Biochemistry (Wiley).
44. PHYSICAL ASPECTS OF BIOCHEMISTRY (Full course). Properties of electrolytes and solutions, thermodynamics, enzyme kinetics, physical methods (optical, gravitational, electrical, isotopic, chromatographic).
3 hours. *Professor Thomson*
Prerequisite: Biochemistry 31, Chemistry 24; Biochemistry 43 should be taken concurrently.
45. METABOLISM (Full course). The nature of biological oxidations and reductions and the enzymes concerned therewith, especially from the point of view of transfer of energy; the intermediary metabolism of organic foodstuffs, the hormonal control of metabolism.
First term: 2 hours.
Second term: 3 hours. *Professor Quastel and Staff*
Prerequisite: Biochemistry 31.
Texts: Baldwin, Dynamic Aspects of Biochemistry (Cambridge U.P.); Fruton and Simonds, General Biochemistry (Wiley).
47. ADVANCED PRACTICAL BIOCHEMISTRY (Two courses). For Honours students in the Department only.
Four periods. *Professor Hosein*

HONOURS COURSE

First year: First year B.Sc., Botany 100a (or (b) and Zoology 100a (or b).

Second year: Chemistry 22, 23; Mathematics 224; Physiology 21; Zoology 221.

Third year: Biochemistry 31, 37; Chemistry 24.

Two courses chosen from the following:

Bacteriology 21; Genetics 44 or Mathematics 323 or Psychology 22 (a or b); Chemistry 32; Chemistry 32L; Physics 23x; Physiology 31 plus 33.

Fourth year: Biochemistry 43, 44, 45, 47.

For those students who have not taken Bacteriology an introduction to bacteriological methods will be included in Course 47.

BOTANY

Professors

MURIEL V. ROSCOE, *Chairman*

R. D. GIBBS

Associate Professors

G. H. N. TOWERS

C. M. WILSON

Assistant Professors

W. BOLL

P. F. MAYCOCK

100a & 100b. ELEMENTARY BOTANY (Half course). This half course is given as two identical sections, one in the Fall term, the other in the Spring. The student may elect either section. If Botany 100a is taken, Zoology 100b must be taken in the Spring term of the same session. If Botany 100b is taken, Zoology 100a must have been taken in the Fall term of the same session. A student may take only one section of Botany or one section of Zoology per term. A section of Botany and a section of Zoology must be taken in the same academic year.

Botany 100 (a or b) is an introductory course in Botany dealing with the anatomy, cytology and physiology, etc. of plants and their importance as living organisms.

2 hours lectures and 3 hours laboratory

Professors Roscoe, Wilson, Boll, Maycock

Note: Botany 100 (a or b) together with Zoology 100 (b or a) really constitutes a course which might be called "Biology 100" and the student must take a half course in Botany and a half course in Zoology, but in different terms.

11b. GENERAL BOTANY. A Survey of the Plant Kingdom (Half course). A study of representatives of the main plant groups on an evolutionary basis. Second term: 2 hours lectures and 3 hours laboratory

Professors Gibbs and Maycock

Prerequisite: Botany 100a or b.

21. TAXONOMY OF THE HIGHER PLANTS (Full course). A practical introduction to the morphology and classification of the seed plants, giving special attention to the identification and significance of Canadian species.

2 hours lectures and 3 hours laboratory

Professor Gibbs

Prerequisite: Botany 100a or b or Botany 11b.

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22. **PLANT ANATOMY** (Full course). An introduction to the general organization and detailed anatomy of vascular plants including the relation between structure and function. The latter part of the course deals with comparative anatomy and the evolution of vascular plants making use of both fossil and living material.
2 hours lectures and 3 hours laboratory. *Professors Roscoe and Towers*
Prerequisite: Botany 100a or 100b.
23. **MYCOLOGY** (Full course). General characteristics of the fungi: classification, morphology, and behavior. Attention is also given to the culturing and handling of fungi and their economic importance.
2 hours lectures and 3 hours laboratory. *Professor Wilson*
Prerequisite: Botany 100a or 100b.
31. **PLANT PHYSIOLOGY** (Full course). A general introduction to the study of the physiological functioning and reactions of plants. Topics such as water relations, photosynthesis, mineral nutrition, respiration, growth, and metabolism are discussed in detail.
2 hours lectures and 3 hours laboratory *Professor Towers*
Prerequisite: Botany 100a or b and Chemistry 22.
32. **MORPHOLOGY AND TAXONOMY OF THE LOWER PLANTS** (Full course). Life histories, structure, and relationships of the Algae, Fungi, Lichens, Mosses and Liverworts, Ferns, and other non-flowering plants.
2 hours lectures and 3 hours laboratory *Professor Gibbs*
Prerequisite: Botany 100a or b and Botany 11b.
(*Not given in 1961-62; given in 1960-61.*)
- *33. **PLANT BIOCHEMISTRY** (Full course). Chemistry, occurrence, and roles of organic materials found in plants, and methods for their detection and estimation. Some reference is made to economic uses of plants.
2 hours lectures and 3 hours laboratory (6 hours laboratory for graduate and honours students) *Professors Gibbs and Towers*
Prerequisite: Botany 100a or b or Botany 11b, Chemistry 22.
(*Given in 1961-62; not given in 1960-61.*)
- *41. **MICROTECHNIQUE** (Full course). Methods of preparing plant material for microscopical study, with practical experience in fixing, embedding (both paraffin and celloidin), cutting, and staining.
1 hour lecture and 6 hours laboratory *Professor Roscoe*
Prerequisite: Botany 22a and b.
(*Given in 1961-62; not given in 1960-61.*)

*Courses for Advanced and Graduate students.

- *42. SPECIAL TOPICS (Full course or half course). Prescribed reading, conference, and practical work in selected subjects such as Anatomy, Ecology, Mycology, Physiology, Taxonomy of Special Groups, and Biochemistry.

The Staff

- *43b. PLANT ECOLOGY (Half course). A study of the effects of climate and soil factors on plant growth leading to an interpretation of the evolution, distribution and succession of plant communities. Reference will be made to methods of ecological studies in conservation, forestry, and agriculture practices.

Second term: 2 hours lectures and 3 hours field, conference or laboratory

Professor Maycock

Prerequisites: Botany 100a or b, Botany 11b and 21 (except with special permission).

(Given in 1960-61; not given in 1961-62.)

- 44a. ECONOMIC BOTANY (Half course). The nature, origins and distribution of plants of economic importance, with some study of structure of plant parts utilized.

First term: 2 hours lectures and 3 hours laboratory

Professors Wilson and Roscoe

Prerequisites: Botany 100a or b, or Botany 11b.

(Given in 1960-61; not given in 1961-62.)

- *45. PLANT MORPHOGENESIS (Full course). A survey of the physiological, biochemical, and genetic approaches to the experimental study of plant morphogenesis, including growth correlation, the function of plant hormones and the environmental control of plant development and morphology.

First term: 2 hours lectures and 3 hours laboratory

Second term: 2 hours lectures and weekly seminar

Professor Boll

Prerequisite: Botany 100a or b, Botany 11b, 31, and Genetics 21.

(Given in 1960-61; not given in 1961-62.)

HONOURS COURSE IN BOTANY

NOTE:—The Honours Course in Botany prepares students for graduate work in the departments of Genetics and Plant Pathology as well as Botany. Allowing as it does for considerable study of other biological subjects, it forms also a suitable preparation for the teaching of Biology in schools.

*Courses for Advanced and Graduate students.

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First year: Students must take Botany 100a or b as their elective in the B.Sc. program.

Second year: The general Second year requirements are satisfactory as long as Chemistry 22 and a course in Botany are included. Botany 11b and one or more of the following should be taken: Botany 21 or 22 or 23. The Arts subject is optional.

Third year: Botany 21, 22 or 23, and 31 must be included if not already taken. Additional courses are to be selected from cognate fields with the advice of the Chairman of the Department.

Fourth year: Three of the remaining Botany courses are required, together with two other courses selected with the approval of the Chairman of the Department.

CONTINUATION COURSES IN BOTANY

Second year: Botany 22 and 11b, or 21, or 22 or 23

Third year: Botany 11b to 45

Fourth year: Botany 11b to 45

Botany 100a or b (or its equivalent) is prerequisite to all courses in Botany.

GENERAL HONOURS IN BIOLOGICAL SCIENCES

Students who desire a planned course of study of plants and animals should consult the program drawn up for "General Honours in Biological Sciences", page 1026.

DEPARTMENT OF CHEMISTRY

Professors

CARL A. WINKLER, *Chairman*

C. B. PURVES

L. YAFFE

Associate Professors

R. K. HOLCOMB

J. H. MENNIE

R. V. V. NICHOLLS

A. S. ROSS

H. I. SCHIFF

A. TAURINS

Assistant Professors

G. C. B. CAVE

J. T. EDWARD

G. E. JUST

M. ONYSZCHUK

R. F. ROBERTSON

A. SEHON

Research Associates

D. A. I. GORING
O. MAASS
R. STJ. MANLEY
S. G. MASON
W. A. MUELLER
A. A. ROBERTSON
T. TIMELL
C. E. DROVER

Senior Instructor

11. (Fac. Eng. 902) GENERAL CHEMISTRY (Full course). A general survey of Inorganic Chemistry. This includes Atomic and Kinetic-Molecular theory, the theory of Ionization, with elementary examples of ionic equilibrium, rates of chemical reaction, law of mass action, oxidation and reduction, the electromotive series of the metals, the Periodic Law and the Electronic theory of Valence. The preparation and properties of the more important elements and their compounds in relation to atomic and molecular structures are emphasized.

2 lectures per week. *Professors Just, Nicholls, Onyschuk, Winkler and Yaffe*

1 tutorial per week. *Professors Holcomb, Nicholls and Onyschuk*

Text: Luder, Vernon and Zuffanti, General Chemistry, 2nd ed. (Saunders).

Laboratory: The lectures are supplemented by descriptive and quantitative experiments, including volumetric analysis, illustrative of the important principles and theories.

3 hours per week. *Professors Holcomb, Nicholls and Onyschuk*

Prerequisites: Physics 11 and Mathematics 111 (or their equivalents) unless taken concurrently.

21. (Fac. Eng. 940) INORGANIC CHEMISTRY (Full course). A systematic, detailed description of the properties of the elements and their compounds based upon the periodic classification of the elements. This includes an introduction to the relation between properties, structure and types of bonding.

2 lectures per week. *Professors Holcomb and Onyschuk*

Text: Latimer and Hildebrand, Reference Book of Inorganic Chemistry (Macmillan).

Prerequisite: Chemistry 11.

- 21L. INORGANIC CHEMISTRY LABORATORY (Half course). The preparation, purification, analyses and reactions illustrative of the general methods and types of compounds discussed above (21). The reactions and solubility

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relations of the cations and anions are included, together with the methods for their separation and identification.

3 hours per week.

Professors Holcomb and Onyschuk

For Honours Chemistry students only.

22. (Fac. Eng. 948) ORGANIC CHEMISTRY (ELEMENTARY).

(a) (Half course). A survey of the special characteristics of carbon and its compounds, stressing the principal families of compounds and their reactions and dealing mainly with those involving single functional groups.

2 lectures and 1 tutorial per week.

Professors Nicholls and Purves

Text: To be announced.

(b) (Half course). A commentary on the nomenclature, occurrence, preparation, properties, and uses of the more important classes of carbon compounds, and on the principles of functionality, homology and isomerism. A continuation of course (a) in greater detail, so as to include polyfunctional compounds.

2 lectures and 1 tutorial per week.

Professors Nicholls and Purves

Text: To be announced.

Laboratory: Illustrative experiments.

3 hours per week.

Professor Edward

Laboratory Text: Fieser, Experiments in Organic Chemistry. 3rd ed. (Heath and Co.).

Prerequisites: Chemistry 11 and Physics 11 or their equivalents.

23. (Fac. Eng. 944) INORGANIC QUANTITATIVE ANALYSIS (ELEMENTARY)

(Full course). Reactions of electrolytes in solution; ionization constant; solubility product constant; common-ion effect. Theory of gravimetric and volumetric precipitation; theory of indicators and acid-base titrations; oxidation-reduction methods.

Laboratory: Simple gravimetric determinations; typical volumetric procedures including precipitation, neutralization, and oxidation-reduction methods. All samples are solids which must be weighed and brought into solution by the student.

1 lecture and 6 hours laboratory per week.

Professor Mennie

Text: Kolthoff and Sandell, Quantitative Inorganic Analysis (Macmillan).

Prerequisite: Chemistry 11.

24. **PHYSICAL CHEMISTRY (ELEMENTARY)** (Full course). Fundamental physico-chemical topics including states of matter, equilibria, electrochemical phenomena, chemical kinetics, thermodynamics.

3 lectures per week.

Professor Winkler

Text: Glasstone, Elements of Physical Chemistry (Van Nostrand)

Prerequisites: Chemistry 11, Physics 11, Maths 224 (or equivalent) unless taken concurrently.

31. **ATOMIC STRUCTURE AND VALENCE THEORIES** (Full course).

2 lectures per week.

Professors Onyschuk and Yaffe

Prerequisite: Chemistry 21, 24 (unless taken concurrently), Physics 11, Mathematics 224 or 225.

32. (Fac. Eng. 962) **ORGANIC CHEMISTRY (ADVANCED)** (Full course). A course in descriptive organic chemistry at an advanced level. It develops and extends the material presented in Courses 22a and b. Special consideration is given to the following topics: polyfunctional compounds, aromatic substances.

2 lectures per week.

Professor Just

Text: To be announced.

Prerequisite: Chemistry 22.

- 32L. **ORGANIC CHEMISTRY LABORATORY (ADVANCED)** (Half course).

6 hours per week.

Professor Just

Texts: Fieser, Experiments in Organic Chemistry 3rd Ed. (Heath and Co.); Shriner, Fuson and Curtin, The Systematic Identification of Organic Compounds, 4th Ed. (Wiley).

33. **INORGANIC QUANTITATIVE ANALYSIS (ADVANCED)** (Full course). Sampling; decomposition of naturally-occurring materials and alloys; theory and practice of modern and of classical methods for separating metals; introduction to some modern volumetric reagents and indicators; colorimetric, and electro-analytical methods for the determination of elements.

1 lecture, 1 tutorial and 3 hours laboratory per week.

Professor Cave

Text: To be announced.

References: Charlot and Bézier, Quantitative Inorganic Analysis, translated by Murray (Wiley); Hillebrand, Lundell, Bright, and Hoffman, Applied Inorganic Analysis (Wiley); Kolthoff and Sandell, Inorganic Quantitative Analysis (Macmillan).

Prerequisites: Chemistry 21 and 23.

For Honours Chemistry students only.

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- 34L. (Fac. Eng. 968) PHYSICAL CHEMISTRY LABORATORY (INTERMEDIATE) (Half course). Simple physico-chemical methods of investigating kinetic and thermodynamic properties of gases, liquids and solutions.

3 hours per week.

Professor Ross

Text: Daniels, Matthews, Williams, Bender and Alberty, Experimental Physical Chemistry, 5th ed. (McGraw-Hill).

References: Livingston, Physico Chemical Experiments (Macmillan); Palmer, Experimental Physical Chemistry (Cambridge).

Prerequisite: Chemistry 24.

35. (Fac. Eng. 964) CHEMICAL THERMODYNAMICS AND ELECTROCHEMISTRY. First and second laws, entropy, free energy, activity and fugacity in ideal and real solutions. Solutions of strong electrolytes. Electrode potentials, electro-chemical cells, electrolytic conduction and electrolysis, specific and equivalent conduction, mobility and transport numbers, overvoltage and polarization.

3 lectures per week.

Professor Robertson

Texts: Klotz, Chemical Thermodynamics (Prentice Hall); Lewis and Randall, Thermodynamics (McGraw-Hill); Glasstone, Introduction to Electrochemistry (Van Nostrand).

Prerequisite: Chemistry 24.

40. (Fac. Eng. 966) CHEMISTRY AND TECHNOLOGY OF HIGH POLYMERS (Half course). Organic (carbon) and inorganic (silicon) polymers; nature of polymeric molecules; relationship between molecular structure and physical, chemical, and mechanical properties; experimental methods for controlling and determining the structures of polymers; properties of commercially available materials; methods of fabrication.

1 lecture per week.

Professor Nicholls

Prerequisites: Chemistry 22 and 32 (the latter course may be taken concurrently).

41. INORGANIC CHEMISTRY (ADVANCED) (Full course). Selected topics in modern inorganic chemistry.

2 lectures per week.

Professors Holcomb, Onyszchuk and Yaffe

Prerequisite: Chemistry 31.

For Honours Chemistry students only.

- 41L. INORGANIC CHEMISTRY LABORATORY (ADVANCED) (Half course). An introduction to modern techniques for the preparation of inorganic compounds.

First term: 3 hours per week

Professors Holcomb and Onyszchuk

Prerequisite: Chemistry 21L.

For Honours Chemistry students only.

42. ORGANIC CHEMISTRY (ADVANCED) (Full course). Selected topics in modern organic chemistry, including natural products, stereochemistry and reaction mechanisms.

2 lectures per week.

Professor Edward

Prerequisite: Chemistry 32.

For Honours Chemistry students only.

- 42L. ORGANIC CHEMISTRY LABORATORY (ADVANCED) (Half course). An introduction to modern techniques in organic chemistry, including chromatography of various types, extraction, electrophoresis, etc.

3 hours per week.

Professor Taurins

Text: Linstead, Elvidge and Whalley, A course in Modern Techniques of Organic Chemistry (Butterworth).

Prerequisite: Chemistry 32L.

For Honours Chemistry students only.

43. INSTRUMENTAL METHODS OF ANALYSIS (Half course). An introduction to modern techniques of chemical analysis, including gas chromatography, mass spectrometry, chemical microscopy, x-ray diffraction, measurements of radioactivity, infrared and ultra-violet spectrophotometry, optical spectrography; x-ray fluorescence spectrometry, polarography, etc.

First term: 1 lecture per week.

Professor Cave and others

Second term: 3 hours laboratory per week.

Prerequisites: Chemistry 31 and 33.

For Honours Chemistry students only.

44. KINETIC THEORY AND CHEMICAL KINETICS (Full course). Description of physical phenomena in terms of statistical distribution functions, concept of cross section, transport phenomena, dynamics of two-particle encounters, measurement and calculation of rates of chemical reactions, energetics of reactions, theories of reaction mechanism, heterogeneous and homogeneous catalysis.

2 lectures per week.

Professor Sehon

References: Moelwyn-Hughes, Physical Chemistry (Pergamon Press); Glasstone, Text-Book of Physical Chemistry (Van Nostrand); Present, Kinetic Theory of Gases (McGraw-Hill); Laidler, Chemical Kinetics (McGraw-Hill); Trotman-Dickenson, Gas Kinetics (Butterworth).

Prerequisites: Chemistry 24 and 35.

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- 44L. PHYSICAL CHEMISTRY LABORATORY (ADVANCED) (Full course). More advanced physico-chemical methods of investigating kinetic and thermodynamic properties of gases, liquids, solutions, and colloids.

6 hours per week.

Professor Ross

Text: Daniels, Mathews, Williams, Bender and Alberty, Experimental Physical Chemistry, 5th ed. (McGraw-Hill).

References: Weissberger, Techniques of Organic Chemistry, Vol. I, Physical Methods, Vol. IV, Distillation, Vol. VIII, Investigation of Rates and Mechanisms of Reactions (Interscience); Reilly and Rae, Physico-Chemical Methods (Van Nostrand).

Prerequisites: Chemistry 34L and 35.

For Honours Chemistry students only.

45. CHEMICAL THERMODYNAMICS (ADVANCED) (Full course).

2 lectures per week.

Professor Schiff

References: Sillén, Lange, and Gabrielson, Problems in Physical Chemistry (Prentice-Hall); Lewis and Randall, Thermodynamics (McGraw-Hill); Klotz, Chemical Thermodynamics (Prentice-Hall); Paul, Principles of Chemical Thermodynamics (McGraw-Hill); Dole, Introduction to Statistical Thermodynamics (Prentice-Hall).

Prerequisite: Chemistry 35.

For Honours Chemistry students only.

46. (Fac. Eng. 986) COLLOID CHEMISTRY (Half course). Descriptive, thermodynamic and kinetic treatment of properties of surfaces, sols, emulsions, gels.

1 lecture per week.

Professor Robertson

References: Weiser, Colloid Chemistry (Wiley); Adam, Physics and Chemistry of Surfaces (Oxford); Brunauer, Adsorption of Gases and Vapors, Vol. I (Princeton); Alexander and Johnson, Colloid Science (Oxford); Harkins, Physical Chemistry of Surface Films (Reinhold); Jirgensons and Straumanis, Short Textbook of Colloid Chemistry (Wiley); Gregg, The Surface Chemistry of Solids (Reinhold).

Prerequisite: Chemistry 35.

48. RADIOCHEMISTRY (Half course). An extra half course for Fourth year Honours students. A number of lectures will be given dealing with fundamentals of radiochemistry, radio-tracer techniques and applications. The remainder of the lectures will be devoted to special topics including isotope effects, exchange reactions, C^{14} dating technique, synthesis of the new elements, etc.

1 lecture per week.

Professor Yaffe

Prerequisite: To be discussed between prospective student and lecturer.

70. SCIENCE IN ECONOMIC LIFE (Full course). The special character of science pure and applied; the history of science in general, and chemistry in particular, in Western Europe, the United States and Canada; the role of science and chemistry in providing the necessities of life; future prospects for novel materials and energy sources; role of research and development; economic factors affecting the Canadian chemical industry.

This course is intended primarily for B.Com. students.

2 lectures per week and term essay.

Professor Nicholls

Text: Selected readings.

73. (Fac. Eng. 954) INORGANIC QUANTITATIVE ANALYSIS (ELEMENTARY) (Half course). Reactions of electrolytes in solution; ionization constant; solubility product constant; common-ion effect. Theory of gravimetric and volumetric precipitation; theory of indicators and acid-base titrations; oxidation-reduction methods.

This course is intended for students specializing in Geology.

Laboratory: Representative gravimetric and volumetric laboratory procedures.

1 lecture and 3 hours laboratory per week.

Professor Mennie

Text: Kolthoff and Sandell, Quantitative Inorganic Analysis (Macmillan).

B.Sc. HONOURS COURSE IN CHEMISTRY

This course begins in the Second year. First year students intending to take Honours in Chemistry should consult the Department before the end of the session.

Second and Third year Honours students may make application for summer employment in the research laboratories of the department.

Prerequisites: At least good second class standing in Chemistry 11, Mathematics 111, and Physics 11 or their equivalents.

Second year: Chemistry 21, 21L, 22, 23, 24; Mathematics 223 or 225; Physics 23.

Third year: Chemistry 31, 32, 32L, 33, 34L, 35; Mathematics 332; Physics 33, German 101.

Fourth year: Chemistry 41, 41L, 42, 42L, 43, 44, 44L, 45, 46; Mathematics 447; Physics 36.

NOTE:—Students anticipating specialization in Chemistry are recommended to include Intermediate Mathematics in their Junior Matriculation subjects. If they enter by Senior Matriculation they should include Co-ordinate Geometry in this examination.

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GENERAL COURSE STUDENTS

B.Sc.—Provided the necessary prerequisites (Chemistry 11, Physics 11, Mathematics 111, or their equivalents) have been passed, courses in chemistry may be selected from Chemistry 21, 22, 23, 24, 31, 32, 33, and other courses by special permission of the Department. *For continuation in Chemistry, at least one of the courses chosen must be at a level more advanced than the Second year.*

The Department of Chemistry would be glad to discuss with the student an appropriate plan of study.

B.A. students normally are admitted to Chemistry 11 only in their Second year *after* passing Physics 11 in their First year and if they plan to take a Chemistry course in a later year.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

CLASSICS

Professor CLIVE H. CARRUTHERS (*Post-retirement*)

Associate Professors E. M. COUNSELL
COLIN D. GORDON
PAUL F. McCULLAGH, *Chairman*

Assistant Professor GERALD R. VALLILLEE

Lecturers E. MARIE SPENCE
ALBERT SCHACHTER

GREEK

Courses numbered 221 and above are available to General Course students in the Second, Third or Fourth year.

1. **BEGINNERS' GREEK** (Full course). For students who have not matriculated in Greek.

3 hours.

Professor Gordon

Text: Greek through Reading (Nairn, Ginn & Co.).

2. **INTERMEDIATE GREEK** (Full course). Grammar, readings, and studies in Greek Literature.

Prerequisite: Greek 1, except by permission of the Chairman of the Department.

3 hours.

Miss Spence

Texts: Selections from Xenophon; prose composition; Homer, selections.

221. GREEK (Full course). Readings in Plato.
Prerequisite: Matriculation Greek, or Greek 2.
 3 hours.
Texts: To be announced.
222. GREEK (Full course). Readings in Homer; Attic prose selections; prose composition.
 3 hours.
223. HELLENISTIC GREEK (Full course). Readings from Hellenistic authors and the New Testament. Permission of the Department must be obtained before registering for this course.
 3 hours. *Professor Carruthers*
Texts: To be announced.
331. GREEK (Full course). Greek Drama.
 3 hours. *Miss Spence*
332. GREEK (Full course). Greek Historians.
 3 hours. *Professor Gordon*
333. GREEK (Full course). Reading course. Authors to be chosen according to interests and ability of students. Registration limited.
 3 hours. *Members of the Department*
441. GREEK (Full course). Greek Orators.
 3 hours.
442. GREEK (Full course). Greek Philosophy.
 3 hours. *Professor McCullagh*
Texts: Plato, Republic (Selections); Aristotle, Ethics (Selections); Sight Translation.
 For Honours courses, continuation courses and other courses in Classics see below (page 1051).

LATIN

Courses numbered 221 and above are available to General Course Students in the Second, Third or Fourth year. Only certain courses from those numbered 223-442 are given in any one session. Consult department for details.

1. BEGINNERS' LATIN (Full course). Students who have passed the McGill School Certificate examination in Latin or its equivalent are not permitted to elect this course.
 3 hours. *Members of the Department*
Text: Wheelock, Latin, an introductory course (Barnes and Noble).

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2. INTERMEDIATE LATIN (Full course).

Prerequisite: Latin 1.

3 hours.

Members of the Department

Text: To be announced.

100. LATIN. First year (Full course). The completion of this course and one other fulfils the Foreign Language requirement for the B.A. degree. Reading selections, composition and sight translation.

3 hours.

Members of the Department

Texts: To be announced.

221. LATIN (Full course). Roman Comedy.

3 hours.

Professor Vallillee

222. LATIN (Full course). Readings in Cicero, Catullus and Horace (Odes); prose composition.

3 hours.

Professor Counsell

Texts: Cicero, *De Amicitia*; Selections from Horace (Odes) or Catullus.

223. READINGS IN LATE AND MEDIEVAL LATIN (Full course). Permission of the Department must be obtained before registering for this course.

3 hours.

Professor Counsell

Text: To be announced.

331. LATIN (Full course). Prose of the age of Cicero; prose composition.

3 hours.

Professor Counsell

332. LATIN (Full course). Readings from the *Bucolics* and *Georgics*.

3 hours.

Professor Carruthers

333. LATIN (Full course). Reading course. Authors to be chosen according to interests and ability of students. Registration limited.

3 hours.

Members of the Department

441. LATIN (Full course). Roman Historians.

3 hours.

Professor Carruthers

442. LATIN (Full course). Roman Satire: Horace and Juvenal

3 hours.

Professor Carruthers

For Honours courses, continuation courses and other courses in Classics, see below (page 1051).

OTHER COURSES

ANCIENT HISTORY 110.—GREEK AND ROMAN HISTORY (Full course). A general course available both to First year students and to those in the upper years. A survey of Greek and Roman history from the origins to the beginning of the Middle Ages.

3 hours.

Professor Gordon

Text: Ancient History, C. E. Robinson (Macmillan).

ANCIENT HISTORY 221.—GREEK HISTORY (Full course). The origin, development, achievements, and decay of the Greek city-state society, from the time of Homer to Alexander the Great. Particular attention will be paid to Greek life and culture and to Greek contributions to modern civilization.

3 hours. (*Not given in 1960-61.*)

Professor Gordon

Ancient History 110, though not a prerequisite, is desirable for students taking this course and Ancient History 222.

ANCIENT HISTORY 222.—ROMAN HISTORY (Full course). The political and social development of the Roman state from its origins to the time of Augustus, with particular attention to the collapse of the Republic and the founding of the Principate.

3 hours.

Professor Gordon

CLASSICS 200.—CLASSICS IN TRANSLATION (Full course). For Second, Third and Fourth year students. Each student will select, for special study, one of four fields (Epic Poetry, Drama, History, Ethical and Political Theory). The examination will be in two parts of equal value, one on the special field, the other on general knowledge.

3 hours.

Professor McCullagh

CLASSICS 331.—COMPARATIVE GRAMMAR. For Third year Honours students (Half course).

2 hours.

Professor Carruthers

LINGUISTICS 221.—INTRODUCTION TO THE STUDY OF LANGUAGE. Available to Second, Third, and Fourth year students (Full course). An elementary survey of human speech, its nature, origin, structure, and classification; principles of linguistic change; writing and the alphabet; universal and auxiliary languages.

3 hours.

Professor Carruthers

HONOURS COURSES IN CLASSICS

Students will take two full courses each year both in Latin and in Greek, and, in addition, Classics 331 and Ancient History 110.

ARTS AND SCIENCE

Honours in Latin or Greek may be combined with Honours in another subject, as follows:

1. **Greek and Philosophy.** Students entering without Greek must take Greek in the First year. *Second year:* two courses of Greek 221, 222, 223; Philosophy 200 and 300 (if the special field is Ethics) or Philosophy 200 and either 310 or 320 (if the special field is Systematic Philosophy). *Third year:* Greek 331 and 332; Philosophy 350 and 360. *Fourth year:* Greek 441 and 442; Philosophy 370 or 420 or 440 or 340; Philosophy 400 (if the special field is Ethics) or Philosophy 410 (if the special field is Systematic Philosophy). Additional courses must be approved by the two Departments.
2. **Latin and Philosophy.** Students will take the regular Latin course of the First year. *Second year:* two courses of Latin 221, 222, 223, Philosophy 200 and 300 (if the special field is Ethics) or Philosophy 200 and either 310 or 320 (if the special field is Systematic Philosophy). *Third year:* Latin 331 and 332; Philosophy 350 and 360. *Fourth year:* Latin 441 and 442; Philosophy 370 or 420 or 440 or 450; Philosophy 400 (if the special field is Ethics) or Philosophy 410 (if the special field is Systematic Philosophy). Additional courses must be approved by the two Departments.
3. **Latin and Spanish.** Students will take the regular Latin and Spanish courses of the First year. *Second year:* Two courses of Latin 221, 222, 223; Spanish 21 and 22; Linguistics 221. *Third year:* Latin 331 and 332, Spanish 31 and 33. *Fourth year:* Latin 441 and 442; Spanish 41 and 42. An additional course may be required in the Third and the Fourth year.
4. **Latin and English.** See description under the Department of English.
5. **Greek and English.** See description under the Department of English.
6. **Latin and French.** See description under the Department of Romance Languages.
7. **Latin and German.** See description under the Department of German.
8. **Greek and German.** See description under the Department of German.

All Honours courses must be approved by the Department.

CONTINUATION COURSES

Students offering Latin (or Greek) as a Continuation subject will take one course in their Second, Third, and Fourth years.

GRADUATE COURSES IN CLASSICS

See the Announcement of the Faculty of Graduate Studies and Research.

ECONOMICS AND POLITICAL SCIENCE

Professors

J. R. MALLORY, *Chairman*

E. F. BEACH

F. C. JAMES

H. D. WOODS

D. McC. WRIGHT

Associate Professors

IRVING BRECHER

MICHAEL BRECHER

K. B. CALLARD

J. T. CULLITON

B. E. SUPPLE

J. C. WELDON

Assistant Professors

A. ASIMAKOPOULOS

S. J. FRANKEL

M. K. OLIVER

SYLVIA OSTRY

Lecturer

I. D. PAL

Sessional Lecturers

H. H. BINHAMMER

A. E. KOVACS

N. G. PILLAI

L. SIMCOE

With the assistance of School of Commerce Professor D. E. Armstrong.

ECONOMICS COURSES

100. ECONOMIC HISTORY. First year (Full course). Evolution of economic institutions; the ancient empires; economic and social aspects of the decline and fall of the Roman Empire; mediaeval agrarian economy; fairs, towns and trading companies; mediaeval money; the voyages of discovery; religion and the rise of capitalism; nationalism and mercantilism; the colonial system; the beginnings of modern banking; the great inventions and the factory system; North American industrial development; trade unions and the co-operative movement; legislative protection of the worker; international finance; rise and fall of the gold standard; evolution of the central banking function; recent economic changes.

3 hours.

Professor James

ARTS AND SCIENCE

- 211H. INTRODUCTION TO ECONOMIC THEORY. Second year (Full course). An introduction to economic analysis covering general price theory, the theory of the firm, theory of production and distribution, and general equilibrium theory.

3 hours.

Professor Beach

This course is prerequisite to all Honours courses in Economics.

- 211G. ELEMENTS OF POLITICAL ECONOMY. Second year (Full course). Production, distribution, and exchange of goods; money and banking; price; international trade and foreign exchange; labour and trade unions; related topics.

3 hours.

Professors Culliton and Weldon

This course is prerequisite to all courses in Economics except Economics 100 and 361.

- 211C. PRINCIPLES OF ECONOMICS. Second year (Full course). An introduction to the general principles of economics, covering monetary systems, price levels, national income, production, competition, and international trade.

3 hours.

Professor Wright

This course is prerequisite to all courses in Economics except Economics 100 and 361.

300. ECONOMIC HISTORY OF MODERN BRITAIN. Third or Fourth year (Full course). Traces the economic evolution of Britain from the medieval system to the present day. The structure as well as the performance of the economy is emphasized. Particular attention is paid to the organization of, and the shifting balance between, agriculture, industry, trade and finance; the predominant economic institutions and classes in each period; population changes and the standard of living; economic growth and industrialism; the changing nature of business enterprise; economic attitudes and government policy; Britain's role in the international economy.

3 hours.

Professor Supple

311. HISTORY OF ECONOMIC THOUGHT. Third or Fourth year (Full course). A critical study of the writings of the great economists, with particular reference to the period from Adam Smith to the present day.

For Honours students only.

3 hours.

Professor Irving Brecher

- 321G. MONEY AND BANKING. Third year (Full course). Theory and practice of money and credit; organization and operations of financial institutions; monetary policy; concept and function of money; early history of credit institutions; the crisis of 1825, the Peel Bank Act, and

the development of the British financial system; the National Banking System in U.S. and the evolution of the Federal Reserve System; early development of Canadian banking; effects of World Wars I and II and of the Great Depression on U.S., U.K., and Canadian banking; monetary policy and economic fluctuations.

3 hours.

Professor _____

321H. MONEY AND BANKING. Third year (Full Course).

For Honours Students.

3 hours.

Professor Weldon

331. ECONOMIC POLICY. Third and Fourth year (Full course). A study of governmental economic policy in its political and administrative setting. Topics to be discussed will include monetary policy, fiscal policy, commercial policy, antimonopoly policy, labour and social security, and economic planning. Canadian aspects of these problems will be stressed.

3 hours.

Professors I. Brecher and Ostry

Prerequisite: Economics 211C, G, or H and Political Science 211G or H or 212. This course may be taken for continuation in Political Science.

335a. MONOPOLY, COMPETITION, AND PUBLIC POLICY. Third and Fourth year (Half course). A study of the structure and performance of industrial markets, with particular emphasis on the problems of maintaining effective competition. Canadian, American and British experience will be examined. Readings will cover leading law cases, as well as relevant economic literature.

(Not given in 1960-61)

Professor Irving Brecher

341. LABOUR ECONOMICS AND INSTITUTIONS. Third year (Full course). The first half of the course will deal with the origins of labour problems in modern industrial organizations, trade unions, co-operative societies, credit unions, labour political movements, labour legislation and governmental organizations in the labour field. The second half will apply economic theory to a number of the principal issues in labour relations; it will include the theory of wages and employment and the impact of unions.

3 hours.

Professors Woods and Ostry

351. CANADA: GEOGRAPHIC, INDUSTRIAL, AND ECONOMIC PROBLEMS. Third year (Full course). This course consists of discussions on current economic and political problems in Canada with special emphasis on their origins, causes, and possible solutions, e.g., the wheat problem, the coal problem, etc.

3 hours.

Professor Culliton

ARTS AND SCIENCE

- 361G. ECONOMIC STATISTICS. Third year (Full course). Description of frequency distributions including averages, dispersion, and skewness. Charting and analysis of time series: trend lines, seasonal indexes, and measurement of cyclical fluctuations. Index numbers. Simple linear correlation. An introduction to Statistical Inference covering the following topics: elementary distributions, sampling, tests of statistical hypotheses, and estimation of population parameters.

2 hours lectures, 2 hours laboratory.

Professor Beach

Prerequisite: Mathematics 111; Economics 211 is not a prerequisite.

- 361H. ECONOMIC STATISTICS. Third year (Full course).

For Honours students only.

2 hours lectures, 2 hours laboratory.

Professor Asimakopulos

363. MATHEMATICAL ECONOMICS. Third or Fourth year (Full course). An elementary mathematical treatment of basic economic theory including static and dynamic models of markets and of economic systems.

3 hours.

Professor Beach

By consent of the instructor.

371. CAPITALISM, SOCIALISM, AND DEMOCRACY. Third or Fourth year (Full course). This course explores the relationship between political thought and economic organization. The course begins with a critical analysis of Marxism-Leninism as a theory of politics, economics and science. From this it passes to the various "revisionist" and reformist socialisms—Fabianism etc. The last third of the course is taken up by an analysis of the various theories of "democracy" and of the economic market. Readings include selections from Schumpeter, Hayek, Lenin, Marx, Burke, Whitehead, the American Constitutionalists, and others.

3 hours.

Professor Wright

This course may be taken for continuation in Political Science.

400. THE ECONOMIC HISTORY OF NORTH AMERICA. Third or Fourth year (Full course). Deals primarily with Canada and the influence of the United States on Canadian economic development. The cod fisheries; fur trade, settlement, and the struggle for the continent; breakup of the first British Empire; Confederation; commercial policy; railways; twentieth century industries.

Professor Supple

(Not given in 1959-60.)

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411. ADVANCED ECONOMIC THEORY. Fourth year (Full course). An attempt to formulate the theoretic problems on the frontiers of the science and to study attacks on these problems in the recent literature.

For Honours students only.

3 hours.

Professors Beach and Wright

Prerequisite: Economics 311.

412. ECONOMIC ANALYSIS. Third or Fourth year (Full course). Analysis of the economic problems of the firm; the determination of the demand curve; the forecasting of demand; the measurement of costs; pricing problems in various types of markets; the determination of optimum policies for such matters as advertising, packaging, and premiums.

3 hours.

Professor Armstrong

421. PUBLIC FINANCE. Third or Fourth year (Full course). A seminar course divided into three parts. 1. The theory of public finance. 2. A study of Canadian public finance at the federal, provincial and municipal levels. 3. Special problems of Canadian public finance. Emphasis will be placed on Part 3, which will include consideration of such topics as tax-rental agreements, regional redistribution of income by provincial and federal governments, the effects of the Canadian tax structure on business, and the problem of stabilizing employment in the Canadian federation.

3 hours.

Professor Armstrong

422. ECONOMIC FLUCTUATIONS AND FISCAL POLICY. Fourth year (Full course). Analysis of the nature and causes of fluctuations in income, employment, prices, production, etc. Actual and proposed economic policies for the maintenance of full employment without inflation. Nature of the employment problem and policy implications of various explanations of economic fluctuations.

For Honours students only.

3 hours.

Professors Armstrong and I. Brecher

Prerequisite: Economics 321.

424. INTERNATIONAL TRADE AND FINANCE. Third and Fourth year (Full course). 1. Volume and composition of international trade; international commodity markets; international money and capital markets; dynamics of trade and investment. 2. International analysis and international trade; international income flows and the mechanism of adjustment; international income flows and the level of economic activity; international trade and the international allocation of resources; the distribution of income under free and restricted trade; the gains from free and restricted

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trade; the international spread of income changes. 3. Ends of international economic policy; post-war recovery programmes; international monetary funds, and international monetary and exchange-rate policy; tariffs, trade agreements, and the struggle for multilateralism; the problems and possibilities of international investment: direct and portfolio; Export-Import Bank; International Bank; future of private investment and multilateral trade.

3 hours.

Dr. Pal

Prerequisite: Economics 321.

425. INVESTMENT ANALYSIS AND CORPORATION FINANCE. Fourth year (Full course). Part I—The nature of investment; capital markets; investment funds; classes of securities; concepts of income, risk, value and appreciation; analysis of financial statements; stock market; investment policy. Part II—Forms of business organization; growth of the corporation; the managerial revolution; sources of funds; management of fixed and working capital; ratio analysis; expansion, reorganization and valuation.

3 hours.

Professor _____

431. INTERNATIONAL COMMODITY CONTROLS. Fourth year (Full course). This course includes, as well as international commodity controls, the wider question of monopolies, cartels, patents, and monopoly legislation. It is conducted along seminar lines.

3 hours.

(Not given in 1960-61.)

432. TRANSPORTATION. Fourth year (Full course). History and development of the Canadian transportation system; economic characteristics of the various transportation media; comparative analysis of cost and rate structures; problems of regulation and control.

3 hours.

Professor Culliton

441. INDUSTRIAL RELATIONS. Third and Fourth year (Full course). An introduction to the problems of employer-employee relations, including the management of personnel, legislation, employee organizations, and the State function and public interest in industrial relations. Plant visits and reports are an integral part of the course.

3 hours.

Professor Woods

442. COLLECTIVE BARGAINING. Fourth year (Full course). A seminar course involving an intensive study of collective bargaining institutions and techniques, grievance procedures, law and the state machinery for industrial relations. The course covers trade unionism, employers associations, collective agreements, negotiations, the content of such

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agreements, conciliation, and arbitration. Experience in other industrial countries is also examined.

Students are admitted only by permission of the instructor.

3 hours.

Professor Woods

461. **ECONOMETRICS.** Fourth year (Full course). The formulation of economic theory in mathematical language and the use of statistical materials to test hypotheses and reliability.

3 hours.

Professor Weldon

By consent of the instructor.

POLITICAL SCIENCE COURSES

Political Science 211G, 211H or 212, and either History 100 or Economics 100, are prerequisite to all Third and Fourth year courses in Political Science. Honours students will take Political Science 211H.

- 211G. **COMPARATIVE GOVERNMENT.** Second year (Full course). An introduction to the theory and practice of modern government. This involves a comparative study of the institutions and experience of contemporary constitutional and dictatorial states.

2 hours and conference.

Professor Callard

- 211H. **COMPARATIVE GOVERNMENT.** Second year (Full course).

For Honours students.

3 hours.

Professor Frankel

212. **INTRODUCTION TO POLITICS.** Second, Third or Fourth year (Full course). An analysis of the basic concepts of Political Science, with illustrations drawn mainly from the experience of constitutional and dictatorial government as practised in certain modern states. In the second term, the emphasis is upon international relations.

(Not given in 1960-61.)

Professor ———

311. **HISTORY OF POLITICAL THEORY.** Third year (Full course). A survey of the development of Western political thought from ancient Greece down to the present.

3 hours.

Professor ———

- 312b. **WESTERN POLITICAL PHILOSOPHY.** Third year (Half course). A survey of the broad outlines of Western political philosophy, especially in the modern period, designed for students in the fields of political science, philosophy and history without prior specialized study in political theory.

(Not given in 1960-61.)

ARTS AND SCIENCE

322. **PARLIAMENTARY GOVERNMENT IN THE BRITISH COMMONWEALTH.** Third or Fourth year (Full course). The structure of parliamentary and cabinet government in the United Kingdom, and a discussion of its modifications to meet the requirements of the other autonomous countries of the Commonwealth; the machinery of Commonwealth co-operation.

3 hours.

Professor Mallory and Dr. Bromke

323. **POLITICS AND GOVERNMENT IN ASIA.** Third or Fourth year (Full course). A consideration of the origins and development of the political systems which have emerged in Asia since the end of World War II, with particular attention to India, Pakistan, China and Japan.

3 hours.

Professor Michael Brecher

- 324a. **COLONIALISM.** Third or Fourth year (Half course). A study of the theory and practice of colonialism, the government and politics of contemporary colonial territories, their significance internationally, and the experience and the problems of introducing democratic institutions of self-government in these territories.

First term: 3 hours.

Professor Michael Brecher

(Not given in 1960-61.)

- 325b. **THE GOVERNMENT OF THE UNITED STATES.** Third or Fourth year (Half course). A study of the Constitution, the political institutions, and the working of Congressional Government in the United States.

Second term: 3 hours.

Professor Callard

341. **PUBLIC ADMINISTRATION.** Third or Fourth year (Full course). A study of the machinery of government, with examples drawn mainly from Canada, the United States, and the United Kingdom. The increasing size and complexity of modern government; the problem of bureaucracy; central control of policy; the civil service; other agencies of government, regulatory and commercial; the legislature and the administration; the courts and the administration; public control and accountability.

2 hours and conference.

(Not given in 1960-61.)

- 343a. **MUNICIPAL GOVERNMENT.** Third or Fourth year (Half course). A study of systems of local government in Great Britain, the United States and Canada, and an examination of municipal problems of law, politics, and finance.

First term: 3 hours.

Professor Callard

344. **INTERNATIONAL RELATIONS.** Third or Fourth year (Full course). A study of the theory and practice of international politics and organization. The course will deal with the nature, forms and components of state

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power; balance of power; objectives and motivations of foreign policy; nationalism; imperialism; international morality; international law; diplomacy; structure and dynamics of the League of Nations and the United Nations; selected problems in contemporary international politics.

3 hours.

Professor Michael Brecher

351. GOVERNMENT OF CANADA. Third or Fourth year (Full course). The working of parliamentary federations in Canada. The problems of federal-provincial relations; the structure of parliamentary government; the evolution of national status.

3 hours.

Professor Mallory

352. FRENCH CANADIAN POLITICS. Third or Fourth year (Full course). An examination of the development of French Canadian political thought and behaviour from the early 19th century to the present day. Particular attention will be paid to French Canadian nationalism, the nature of French Canadian participation in political parties and the parliamentary process at both the provincial and federal levels, and to the impact of industrialization in the modern period. The course will end with a consideration of current political and constitutional issues on which there are distinctive French Canadian viewpoints. Students who register must have a good reading knowledge of French.

3 hours.

Professor Oliver

Prerequisites: Political Science 351 or History 305 (With the consent of the Instructor the prerequisite course may be taken concurrently with Political Science 352).

- 355a. POLITICAL PARTIES. Third or Fourth year (Half course). A comparative study of the organization, rôle and functioning of political parties and the party system in constitutional states.

First term: 3 hours.

Professor Frankel

411. ADVANCED POLITICAL THEORY. Fourth year. An advanced course mainly for Honours students. The course will deal with selected topics in recent political theory. In particular it will deal more intensively with certain problems of contemporary importance, such as modern totalitarian theory, which are necessarily treated only briefly in Political Science 311.

3 hours.

Professor Oliver

Prerequisite: Political Science 311.

412. A STUDY OF BOLSHEVISM. Fourth year. An examination of the ideological background of Soviet Communism and its role in the process of gaining and maintaining political power. Political thought from Marx to Mao Tse Tung; the Leninist concept of party and revolution; the

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Russian and Chinese revolutions; government and politics in the U.S.S.R.
3 hours. *Professor Frankel*

Prerequisites: Political Science 311 or Economics 371.

Note:—Philosophy 400, Constitutional Law, and Jurisprudence may be offered, by permission of the Department, as courses in Political Science.

CONTINUATION COURSES

Economics and Political Science are regarded as separate disciplines for continuation purposes, with the exception of Economics 331 and Economics 371a.

HONOURS COURSES

The following is the basic programme for students wishing to take full Honours in Economics and Political Science:

Second year: Economics 211H, Political Science 211H, and three elective courses outside the Department but subject to its approval.

Third year: Economics 311, Political Science 311, one additional course in the Department and another approved course outside.

Fourth year: Three approved courses within the Department, one of which must be in the minor field, and one approved course outside.

Courses in the Third and Fourth years will follow a logical sequence and should lead to some specialization in a particular area of the major field. Honours students must consult their departmental advisers about the proper planning of their courses.

JOINT HONOURS

Joint Honours with other Departments may be taken as follows:

(a) Economics and History

First year: Economics 100 or History 100 and four other courses as required by Faculty.

Second year: Economics 211H, History 200, *either* History 205 or History 210, *either* Political Science 211H or Geography 211, one other approved outside course.

Third year: Economics 311, *either* Economics 321 or Economics 331, History 305, History 310.

Fourth year: Economics 324, *either* Economics 421 or Economics 335a and 371b, History 405, History 420.

(b) Economics and Mathematics

Second year: Two approved full courses in the Department of Economics and Political Science together with Mathematics 225, 226, and one approved outside course.

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Third year: Two approved full courses in Economics together with Mathematics 227, 333.

Fourth year: Two approved full courses in Economics together with Mathematics 339 and any other approved elective course which may be, if desired, a second Mathematics course selected with the approval of the Chairman of the Mathematics Department.

(c) Economics and Philosophy

First year: Students contemplating joint Honours in Economics and Philosophy should consult the two departments in the choice of first year electives.

Second year: Economics 211H, Philosophy 300, Philosophy 310, and two approved outside courses.

Third year: Economics 311, either Philosophy 350 or Philosophy 360, and two other courses to be chosen in consultation with the two departments, with a view to Fourth year specialization.

Fourth year: Economics 411, either Philosophy 350 or Philosophy 360 (whichever was not taken in the Third year), one other course in Economics in an approved field of specialization, and one other approved course.

Joint Honours Comprehensives: At the end of the Fourth year, students will sit a comprehensive examination consisting of the following papers:

Ethics and Political Philosophy
The History of Philosophy
Major paper in Economics
Special subject in Economics.

Ordinary course examinations in the two departments are replaced by these four papers.

(d) Political Science and Sociology

Second year: Political Science 211H and Sociology 210.

Third year: Political Science 311, 355a and either Political Science 343a or Economics 371; Sociology 301 and 304.

Fourth year: Political Science 411 and one other approved full course; Sociology 302 and 401.

The programme may be modified in consultation with Departmental advisors.

(e) Anthropology and Political Science (see page 1167)

(f) History and Political Science (see page 1108)

(g) Philosophy and Political Science (see page 1129)

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THE WRITTEN COMPREHENSIVE EXAMINATIONS FOR HONOURS B.A.

Examinations at the conclusion of the Fourth year will normally be as follows:

- (a) *A Major paper:* This will be a two-part examination. Part I (3 hours) will be the course examination(s) on the Major subject taken in the Fourth year (e.g., Economics 411, Political Science 411a, etc.). Part II (2 hours) will be of a more general and comprehensive character and will attempt to test the student's ability to integrate his knowledge of the Major field. It will be based, to a large extent, on the subject matter of Economics 211H and 311 for Economics students, or, for Political Science students, Political Science 211H and 311.
- (b) *A Minor paper:* This will be the regular course examination on the subject in the Minor field taken during the Fourth year.
- (c) *A Special paper:* This examination will cover the field chosen by the student for specialization and will be based on the sequence of courses in this field and on special reading and research. Examples of fields for specialization are, in Economics, Economic Theory, Labour Economics, International Trade, etc., and, in Political Science, Political Theory, Public Administration, International Relations, etc.

Note: The grade or grades assigned to the course or courses constituting the Major subject will be based on the results of both the course examination(s) and the comprehensive part of the Major paper (e.g., the grade for Political Science 411a will include a weight for the results of the comprehensive part of the final Major paper).

There are no further examination requirements in the three courses normally taken in the Department during the Fourth year. It should be noted that the student is responsible for the regular examination in the course taken outside of the Department, or in the fourth course which is taken within the Department in lieu of an outside course. Thus, the Honours student writes four examinations in all at the end of his final year.

In preparation for the Comprehensive Examinations, course work will be supplemented during the Third and Fourth years by tutorial instruction.

Honours students in Economics or Political Science in the School of Commerce should consult the School of Commerce Announcement.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

EDUCATION

MEMBERS OF THE STAFF OF THE INSTITUTE OF EDUCATION

COURSE OFFERED AS A SUBJECT FOR THE B.A. OR B.Sc. DEGREE

EDUCATION 200—THE HISTORY OF EDUCATION IN WESTERN SOCIETY

The history of education in Europe and America including a study of the systems of public education in the countries of western Europe, in the United States, and in Canada.

3 hours a week.

Professors Munroe and Nash

EDUCATION 300—COMPARATIVE EDUCATION

The evolution of educational theory and practice in Europe. The development of modern educational institutions in European states and their adaptation in colonial societies. Educational practice in Canada and the United States, the development of education in the new states of Asia and Africa (open to students in their 3rd and 4th year).

3 hours a week.

Professors Munroe and Nash

EDUCATION 400. PHILOSOPHICAL FOUNDATIONS OF EDUCATION

An examination of significant philosophical ideas which have influenced Western education.

3 hours a week.

For courses in Education offered for the B.Ed. degree; for courses leading to the High School Diploma; and for Regulations of the Protestant Committee governing the award of teaching diplomas; see the separate Announcement of the Institute of Education.

ENGLISH

Professors

RALPH S. WALKER, *Chairman*

H. G. FILES

JOYCE HEMLOW

Associate Professors

ALEC LUCAS

HUGH MACLENNAN

ARCHIBALD E. MALLOCH

Assistant Professors

CONSTANCE BERESFORD-HOWE

CURTIS D. CECIL

LOUIS DUDEK

ALAN HEUSER

SLAVA KLIMA

IRVING J. MASSEY

MARTIN PUHVEL

GORDON F. SLEIGH

ARTS AND SCIENCE

Lecturers

WILLIAM T. BOOTH
FRANCIS M. FARAGOH
ALLAN J. HARTLEY
DON W. KLEINE
GEORGE MATHEWSON
WILLIAM PROUTY
JANET BETANZOS SANTOS
MARGERY E. SIMPSON
HUGH D. SPROULE
DONALD WALLACE

Note.—In electing courses, the student should bear in mind that (1) some of the English courses cannot be offered in the current session, but will normally be offered in the next session; and (2) some courses admit only a limited number of students, or require special qualifications for admission. A student who wishes to elect a course but, who, after examining the Announcement, is uncertain of his eligibility, should consult the instructor responsible for the course.

COURSES FOR STUDENTS IN THE FIRST YEAR

100. ENGLISH LITERATURE AND COMPOSITION (Full course). A selection of major works in the English literary tradition from medieval to modern times. One hour each week is given to practice and instruction in composition.

4 hours (1 lecture and 3 tutorial meetings).

Professor Walker and members of the Department

REGISTRATION IN ENGLISH 100: It is important to register at the start of the session. Classes missed through late registration are counted as absences: no student whose unexcused absences exceed one eighth of the number of meetings in the Course is permitted to write the final Examination. Assignments unfulfilled because of late registration cannot be made up.

150. ELEMENTARY ENGLISH COMPOSITION. This course is especially designed to help students whose native tongue is not English and who have particular difficulty in writing correct, idiomatic English.

First year students whose native tongue is not English, and whose proficiency in the use of English is not such, in the opinion of the Department, as to enable them to profit adequately from Course 100, will be directed to take Course 150 before proceeding to Course 100. First year students not so directed, and students in other years, may, with the permission of the instructor, elect this course, *but they cannot gain from it any credit towards a degree.*

3 hours weekly throughout the session.

Mrs. Betanzos Santos

COURSES OPEN TO STUDENTS IN THE SECOND YEAR

English 100 (or its equivalent) is prerequisite for admission to Second year courses. Courses open to students in the Second year cannot be taken twice for credit, even when their content is changed from year to year.

200. SHAKESPEARE (Full course). For Second year students only.
3 hours. *Professor Walker*
220. ENGLISH LITERATURE IN THE EIGHTEENTH CENTURY (Full course).
3 hours. *Professor Files*
230. ENGLISH LITERATURE IN THE NINETEENTH CENTURY (Full course).
For Second year students only.
3 hours. *Professor Sleigh*
240. AMERICAN LITERATURE (Full course). From the literary beginnings
to the end of the nineteenth century. *Professor Files*
(Not given in 1960-61.)
250. CREATIVE WRITING—INTERMEDIATE (Full course).
Hours to be arranged. *Professor Beresford-Howe*
*Registration is strictly limited to those who can produce evidence of special
talent in original composition. Students must have the instructor's permission
to take this course.*
290. THE GREAT WRITINGS OF EUROPE (Full course). For 1960-61 the period
studied will be from 1850 to the present day. Most of the works studied
are available in translation.
2 lectures and 1 conference weekly. *Professor Massey*

COURSES OPEN TO STUDENTS IN THE THIRD AND FOURTH YEARS

English 100 (or its equivalent) is prerequisite for admission to Third and Fourth year courses. Third and Fourth year students may take any of the courses open to Second year students except English 200 and 230.

300. OLD ENGLISH (Full course). English Language and Literature up to
the Norman Conquest. The course includes reading from Anglo-Saxon
prose in the first term; and in the second, a study of heroic poetry. The
texts used are: Bright, *Anglo-Saxon Reader* and *Beowulf*, ed. Klaeber
The course is open to Third and Fourth year students taking Honours
in English or in English combined with another subject. *Third and Fourth*

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year students in other categories must have the instructor's permission to take the course.

Students who propose to proceed to the M.A. in English should note that, if Course 300 has not been included in their undergraduate work, it must be included in their graduate work.

3 hours.

Professor Puhvel

- 305a. CHAUCER (Half course). A study of *The Canterbury Tales*, their sources and analogues. Robinson's text (the Student's Cambridge Edition of the Complete Works) is used.

First term: 3 hours.

Professor Hemlow

- 305b. CHAUCER (Half course). A study of the dream-vision poems and of the Troilus story.

Second term: 3 hours.

Professor Hemlow

310. MIDDLE ENGLISH (Full course). Studies in Middle English Literature (exclusive of Chaucer). The course is open to students who have taken either Old English or Chaucer. Brandl and Zippel, *Middle English Literature* is used in the first term, *Gawain and the Green Knight* (ed. Tolkien and Gordon) and *The Pearl* (ed. Gordon) in the second.

3 hours.

Professor Puhvel

- 315b. NON-DRAMATIC LITERATURE OF THE FIFTEENTH AND SIXTEENTH CENTURIES (Half course). A survey of non-dramatic literature from Sir Thomas More to Spenser, with special reference to humanistic theories of literature and education, and to the development of poetic techniques.

Second term: 3 hours.

Professor Hemlow

- 318a. SIDNEY AND SPENSER (Half course). The Renaissance theory of poetry, and a study of the *Faerie Queene* in relation to its historical, philosophical, ethical, social and literary backgrounds.

First term: 3 hours.

Professor Hemlow

- 318b. MILTON (Half course). A study of *Paradise Lost*, *Paradise Regained* and *Samson Agonistes*.

Second term: 3 hours.

Professor Malloch

320. ENGLISH LITERATURE IN THE SEVENTEENTH CENTURY (Full course).

3 hours.

Professor Malloch

- 322a. POETRY OF THE ROMANTIC PERIOD: 1780-1840 (Half course). A detailed study of selected poems by Blake, Wordsworth, Coleridge and Byron.

First term: 3 hours.

Professor Lucas

- 322b. POETRY OF THE VICTORIAN PERIOD: 1840-1890 (Half course).
 Second term: 3 hours. *Professor Lucas*
324. SHAKESPEARE (Full course). A detailed study of selected plays, none of which are on the reading-list for the Second year Shakespeare course. This may be taken as a continuation course following on English 200.
 3 hours. *Professor Walker and Mr. Faragoh*
325. ENGLISH DRAMA FROM THE BEGINNINGS TO 1642, EXCLUDING SHAKESPEARE (Full course).
 3 hours. *Professor Cecil*
330. ENGLISH DRAMA FROM 1660 TO THE PRESENT (Full course).
 3 hours. *Professor Cecil*
 (Not given in 1960-61.)
331. CONTINENTAL EUROPEAN AND AMERICAN DRAMA FROM IBSEN TO THE PRESENT (Full course).
 3 hours. *Mr. Faragoh*
335. THE ENGLISH NOVEL FROM THE BEGINNINGS TO THE PRESENT TIME (Full course). This course includes some reference to foreign work and to related literary types.
 3 hours. *Professor Lucas*
- 336a. THE SHORT STORY (Half course). The history of the short story in English, with some reference to foreign work and to related literary types. Twentieth-century forms and techniques are emphasized.
 First term: 3 hours. *Professor Beresford-Howe*
340. STUDIES IN LITERATURE SINCE 1900 (Full course). Contemporary authors, English and American, with special emphasis on novelists and dramatists.
 3 hours. *Professor Files*
341. CANADIAN LITERATURE (Full course). The development of prose literature and poetry in Canada from the beginnings to the present time.
 3 hours. *Professors MacLennan and Beresford-Howe*
345. ENGLISH PROSE FROM BACON TO THE PRESENT (Full course). The purpose is to trace the development of English prose expression, to show how the powers of the language have become enlarged as writers have responded to the challenge of new ideas and new inventions in writing techniques. Authors representative of each period are studied in detail and include non-fiction writers, novelists, and biographers.
 3 hours. *Professor MacLennan*

ARTS AND SCIENCE

- 355a. THE ART OF POETRY (Half course). A study of poetic forms and techniques. Though the course is intended for students of literature generally, the practising writer will find it useful: students are encouraged to submit work of their own for critical discussion in conference.

First term: 3 hours.

Professor Dudek

(Not given in 1960-61.)

365. POETRY OF THE TWENTIETH CENTURY (Full course). A survey of recent poetry by British and American authors.

Texts: The collected poetry of W. B. Yeats, T. S. Eliot, Robert Frost, Ezra Pound, W. H. Auden, and Dylan Thomas.

3 hours.

Professor Heuser

370. CROSS-CURRENTS BETWEEN ENGLISH LITERATURE AND THE EUROPEAN LITERATURES IN THE 18TH CENTURY (Full course). This course deals with the influence of continental literature and criticism on the English neo-classicism of the 18th century, and with the influence of English literature and criticism on European writers from the time of Voltaire to the rise of Byronism. It includes reference to the works of French, German and Italian authors. A reading knowledge of French is a prerequisite.

3 hours.

Professor Massey

375. EUROPEAN HUMANISM AND ENGLISH LITERATURE IN THE 20TH CENTURY (Full course). The texts are available in English translation, but a reading knowledge of French or German is desirable.

3 hours.

Professor Klima

(Not given in 1960-61.)

- 380a. BIBLIOGRAPHY (Half course). An introduction to the apparatus and methods of scholarship in literary studies. *Open to Honours students. Others may register only by permission of the Department. Students intending to proceed to the M.A. in English should note that this is a required course for that degree.*

First term: Hours to be arranged.

Professor Malloch

395. CREATIVE WRITING—ADVANCED COURSE (Full course). Open to a limited number of undergraduate students who appear well qualified for mature creative writing. Application for permission to take this course should be made at the beginning of the session. *Registration is limited.*

Hours to be arranged.

Professor Files

HONOURS CURRICULUM IN ENGLISH

A student wishing to take full Honours in English must, during his Second, Third, and Fourth years, take a total of ten courses approved by the Department. These must include Half Courses 305a or 305b (Chaucer) and 315b (16th Century); and Courses 200 or 324 (Shakespeare), 320 (17th Century), 220 (18th Century), 230 or 322a and b (19th Century), and 340 (20th Century). The remaining four of the ten courses are to be elected from those approved as Honours Courses by the Department, and may include Cognate Courses as in the list given below.

The normal procedure is that the student takes English 200 and English 230 in his Second year and four courses in each of his Third and Fourth years.

HONOURS IN ENGLISH COMBINED WITH ANOTHER SUBJECT

Students may take Honours in English combined with any one of the following subjects: French, German, Greek, History, Latin, Philosophy. The requirements for each of these combinations are as follows:

Joint Honours in English and French

1st year: English 100; French 11 or 13; three other courses.

2nd year: English 200 and 230; French 21 (or 23) and 22; one other course.

3rd year: English 320 with French 31, *or* English 220 with French 32; English 335 with French 45, *or* English 340 with French 47, *or* English 305a (or 305b) and 318b with French 44; History 320 or Linguistics 221.

4th year: English 305a (or 305b) and 318b with French 44, *or* English 340 with French 47; French 41 and 48; another course to be selected in consultation with the Departments, preferably History 200, Philosophy 360, or Art 301.

Joint Honours in English and German

1st year: English 100; German 100 (or its equivalent); three other courses.

2nd year: English 200; two German courses chosen from 210, 300 and 310; two other courses to be selected in consultation with the Departments.

3rd year: English 320 (or 220), 322a and 322b; two German courses chosen from 310, 320 and 330.

4th year: Two courses chosen from English 325, 330 and 340; two full courses chosen from German 320, 330, 410, 420 and 430.

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Joint Honours in English and Greek

- 1st year:* English 100; Greek 1; three other courses.
- 2nd year:* English 200 and 230; Greek 221 and 222; one other course to be selected in consultation with the Departments.
- 3rd year:* English 305b, 315b, and 318b; Greek 331 and 332.
- 4th year:* English 220 (or 320) and 318a (or 322a); Greek 441 and 442; another half course to be selected in consultation with the Departments.

Joint Honours in English and History

- 1st year:* English 100; History 100; three other courses.
- 2nd year:* English 200 and 230; History 210 and 200 (or 205); another course to be selected in consultation with the Departments.
- 3rd year:* English 220 and 320 with History 326, or English 340 and 370 (or 375) with History 420; and a special subject in the field of English History.
- 4th year:* English 305a, 305b (or 322a), 315b and 318b; History 310 (or 400) and a special subject continued from the 3rd year.

Joint Honours in English and Latin

- 1st year:* English 100; Latin 1 or Latin 100; three other courses.
- 2nd year:* English 200 and 230; two Latin courses chosen from 221, 222 and 223; one other course to be selected in consultation with the Departments.
- 3rd year:* English 315b and 318b; Latin 331 and 332; another course to be selected in consultation with the Departments.
- 4th year:* English 220 and another course to be chosen from 320, 325 and 330; Latin 441 and 442.

Joint Honours in English and Philosophy

- 1st year:* English 100; four other courses.
- 2nd year:* English 200 and 220; Philosophy 200 (if special field is Systematic Philosophy) or 300 (if special field is Ethics); another course to be selected in consultation with the Departments.
- 3rd year:* Two full courses chosen from English 315b, 318a, 320, 322a and 322b; Philosophy 350 and 360.
- 4th year:* English 305a and 305b with Philosophy 370, or English 340 (or 365) with Philosophy 320; Philosophy 410 (if special field is Systematic Philosophy) or 400 (if special field is Ethics.)

COGNATE COURSES

Certain courses offered by other Departments will be accepted as electives for the English Honours degree. The attention of students is called to the following examples of recommended courses: Classics 200, Linguistics 221, German 320, Italian 25a, b and Philosophy 320.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

FINE ARTS

<i>Associate Professor</i>	WINTHROP JUDKINS, <i>Chairman</i>
<i>Assistant Professors</i>	GEORGE GALAVARIS
	GUY VIAU

201. INTRODUCTION TO ART. May be taken in Second, Third, or Fourth year (Full course). The aim of this course is to develop the student's understanding and perception of the work of art as a visual medium of expression; and to observe and analyze the sequential development underlying the history of art and its principal epochs up to the present time.

Lecture course supplemented by discussions, written reports, and assigned reading.

3 hours.

Professor Judkins

221. ANCIENT ART. Second, Third, and Fourth years (Full course). A systematic study of the visual arts in ancient Egypt, Mesopotamia, Greece and Italy in relationship to the philosophical, religious, literary and political concepts of the times. The course is devoted primarily to the art of the Greeks, with particular emphasis on sculpture, and concludes with Roman art.

Two lectures and one discussion meeting per week

3 hours.

Professor Galavaris

261. FUNDAMENTALS IN DRAWING AND PAINTING. Second, Third, and Fourth years (Full course). An introduction to the language of form and color. Sketching and painting from life, still-life, and imagination. Elementary design projects in various media.

6 hours.

Professor Viau

Note: Except by special consent of the instructor, supplemental examinations will not be given in this course.

301. MODERN ART. Third and Fourth years (Full course). The modern movement in painting and sculpture: its emergence (from about 1850), problems, character, and place in the continuity of art history.

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The work will be conducted through lectures, discussions, reading, and reports.

3 hours.

Professor Judkins

Prerequisite: Fine Arts 201.

321. EUROPEAN PAINTING OF THE RENAISSANCE. Third and Fourth years (Full course). The historical development of the Italian schools of painting, under the impact of Medieval Christianity and Classical Humanism, from the beginning of the 14th century through the High Renaissance. The independent emergence of Flemish painting in the 15th century, and the growth of 15th and 16th century German painting and graphic art.

Two lectures and one discussion meeting per week.

3 hours.

Professor Galavaris

331. EUROPEAN PAINTING OF THE 17TH, 18TH, AND 19TH CENTURIES. Third and Fourth years (Full course). The course begins with the emergence of the Baroque style in Italy and follows its dissemination and modifications in other European countries. It continues with the artistic tastes of the 18th and 19th centuries and concludes with Impressionism and Symbolism. Particular attention is given to the relationships between painting and other aspects of the intellectual, religious and social life of these centuries.

Two lectures and one discussion meeting per week.

3 hours.

Professor Galavaris

401. VENETIAN PAINTING OF THE RENAISSANCE. Third or Fourth year (Full course). A study of the Venetian school of painting from its late beginnings, through its sixteenth century culmination, to its eighteenth century "aftermath", including influences in its development, from the East and particularly from the North. Emphasis will be placed upon the greater names in the school, and attention given to its technical contribution to the Western tradition as well as its role in the development of the Baroque style. Individual or collaborative research problems will constitute an integral part of the course work.

3 hours.

Professor Judkins

Prerequisite: Fine Arts 201.

(Not given in 1960-61.)

FINE ARTS AS A CONTINUATION SUBJECT

Following the introductory historical course, Fine Arts 201, in the Second year, any one of the other courses, except Fine Arts 261, may be taken in each of the Third and Fourth years. For greater concentration,

Fine Arts 221 may be taken, concurrently with Fine Arts 201, in the Second year; but at least one additional course must still be taken in each of the Third and Fourth years.

GENETICS

In Montreal

<i>Professors</i>	J. W. BOYES, <i>Chairman</i> F. C. FRASER
<i>Associate Professor</i>	E. R. BOOTHROYD
<i>Assistant Professor</i>	A. F. NAYLOR
<i>Assistant Professor and Research Fellow</i>	J. D. METRAKOS
<i>Lecturers and Research Fellows</i>	K. METRAKOS D. G. TRASLER
<i>Research Associate</i>	E. KAER-BOOTHROYD

At Macdonald College

<i>Associate Professor</i>	R. I. BRAWN
<i>Assistant Professor</i>	W. F. GRANT

21. INTRODUCTION TO GENETICS, HUMAN HEREDITY AND EVOLUTION (Full course). This course is designed to provide a working knowledge of the Mendelian laws, linkage, sex determination, sex-linkage, the origin and nature of hereditary variations, and other basic concepts. Selected problems introduce the practical applications of these concepts and the laboratory work provides experience with experimental materials and methods. Human heredity is considered with particular reference to disease, mental conditions, and eugenics. An introduction to the theory of evolution in the light of genetic principles is presented.

First term: 2 hours and a 3-hour laboratory period.

Second term: 3 hours. *Professors Boyes and Fraser*

Prerequisites: Botany 100a or b and Zoology 100a or b.

Text: Sinnott, Dunn and Dobzhansky, Principles of Genetics.

- 32a. CYTOLOGY (Half course). The nature and organization of the protoplasm in animal and plant cells are outlined in relation to function. Such subjects as the physical and chemical properties of protoplasm, cytoplasmic inclusions, the organization of the nucleus and its behaviour in mitosis and meiosis, chromosome morphology and movement, etc. are discussed.

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Laboratory work is designed to give experience in the interpretation of the structure and dynamic processes of the protoplast.

First term: 2 hours and a 3-hour laboratory period. *Professor Boothroyd*

Prerequisite: Genetics 21a or 21.

Texts: De Robertis, Nowinski and Saez, General Cytology, 3rd ed.

- 32b. CYTOLOGICAL TECHNIQUE (Half course). The student is instructed in the preparation of microscope slides of plant and animal material for the study of the component parts of the protoplast, especially the nucleus. Various fixatives, stains and techniques are used to bring out the details of structure which cannot readily be seen in living material.

Second term: 6 hours laboratory.

Professor Boothroyd

Prerequisite: Genetics 32a unless special permission is obtained from the instructor.

- 36b. DEVELOPMENTAL GENETICS (Half course). A consideration of the scientific method as it is used in studying how the gene works in controlling development.

Second term: 3 hours.

Professor Fraser

Prerequisite: Genetics 21a or 21. Some knowledge of embryology is desirable.

- 42b. MICROBIAL GENETICS (Half course). An analysis of recent progress in the genetics of micro-organisms such as viruses, bacteria, yeasts, paramecia, algae, fungi, etc.

Second term: 3 hours.

Dr. Kafer-Boothroyd

Prerequisite: Genetics 21. *Third year students may take this course only if they are concurrently taking Genetics 32a and 36b.*

Texts: Braun, Bacterial Genetics; Catcheside, *The Genetics of Micro-organisms*.

- 43b. ADVANCED CYTOGENETICS (Half course). Consideration of linkage, self-fertilization, polyploidy, interspecific hybridization, irradiation effects, etc.

Second term: 3 hours.

Professors Boyes and Boothroyd

Prerequisites: Genetics 21a or 21 and 32a.

(Not given in 1960-61.)

44. BIOMETRY (Full course). A treatment of the elementary aspects of statistical theory, analysis, and methods, including: probability and probability distributions, statistical inference (estimation and tests of hypotheses), design and analysis of samples, regression and correlation

analysis, matrices, analysis of variance, with particular reference to their applications to problems in Biology.

2 hours and a 3 hour laboratory period.

Professor Naylor

Prerequisites: A University course in one of the Biological sciences and Mathematics 111, or the equivalent.

45. GENETICS IN EVOLUTION AND POPULATION DYNAMICS (Full course). A consideration of genetic concepts and processes involved in the origin and maintenance of populations and species, including: the origin of hereditary variations, adaptation, selection, migration, isolation, hybridization, breeding methods, genetic drift, the establishment of genetic equilibrium, the breakdown of species.

3 hours.

Professors Boyes and Naylor

Prerequisite: Genetics 32a.

Texts: Dobzhansky, Genetics and the Origin of Species, third ed.; Lerner, The Genetic Basis of Selection.

- 46a. THE GENETICS OF MAN (Half course). Principles of heredity and special techniques as applied to the study of man's genetic diversity will be considered at an advanced level.

First term: 3 hours.

Professor Metrakos

Prerequisite: Genetics 21. *Third year students may take this course only if they are concurrently taking Genetics 32a and 36b.*

- 47a or 47b. SPECIAL TOPICS (Half course). This course is for advanced students of high standing who wish to read extensively in a particular field or undertake a minor research problem in Genetics or Cytology. *The Staff*

- 48a. DESIGN OF EXPERIMENTS (Half course). General principles of experimentation, and designs appropriate to a wide variety of problems. Completely randomized, randomized blocks and Latin square designs: their purposes, design and analysis. Factorial experimentation, interaction, confounding, randomization and error terms. Complex experiments and an elementary treatment of incomplete block designs. Concomitant measurements, sensitivity and control of error variation. Examples drawn from biology.

First term: 2 hours and 3 hours laboratory (arranged). *Professor —*

Prerequisite: Genetics 44 or the equivalent.

Text: Fisher: The Design of Experiments (Oliver and Boyd).

(*Not given in 1960-61.*)

HONOURS COURSES

The Honours Courses in Genetics are designed to give students a good general knowledge of Biology, plus sufficient Genetics to qualify as a

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research assistant in Genetics or Cytology and for Graduate Studies in these fields. Students having at least second class standing may, with the approval of the Department, enter the Honours Course in their Second or Third year. Three alternative programmes are offered, one with emphasis on Botany, one with emphasis on Zoology, and one with emphasis on Biochemistry and Bacteriology.

- First year:* The general B.Sc. curriculum, including Botany 100 or Zoology 100.
- Second year:* Botany 11b, Chemistry 22, Genetics 21, Zoology 211, one half-course Arts option. Also, *Botany interest students* will take Botany 21, and *Zoology interest students* will take Zoology 221.
- Third year:* Genetics 32a, 32b and 36b. *Botany interest students* will also take Botany 22a and 31; Zoology 221; Genetics 43b (if given) plus a half-course Arts option, *or*, a full-course Arts option when Genetics 43b is not given. *Zoology interest students* will take (in addition to Genetics 32a, 32b and 36b) Botany 21, Physiology 21, Zoology 322 and a half course Arts option.
- Fourth year:* Genetics 44, 45 and 43b, a half-course Arts option. *Botany interest students* will take, in addition, Botany 32 and Physiology 21. *Zoology interest students* will take, in addition, Zoology 324 or 325 and Biochemistry 31.

Students may transfer from General Honours in Biological Sciences at the beginning of the Third year. Such transfer students electing the Botany interest will substitute Physiology 21 for Zoology 221 and add Biochemistry 31 in the Fourth year. Such transfer students electing the Zoology interest will take a full-course Arts option in the Third year plus either Genetics 43b (when given) *or* an additional half course in Zoology.

An alternate Honours Course in Genetics has been approved for students interested in Biochemistry and Bacteriology.

- First year:* The general B.Sc. curriculum, including Botany 100a (or b) and Zoology 100a (or b).
- Second year:* One half-course Arts option, Botany 11b, Chemistry 22, Genetics 21, Physiology 21 and Zoology 211.
- Third year:* A half-course Arts option, Bacteriology 21, Biochemistry 31, Genetics 32a, 36b, 42b or 46a, Zoology 322.
- Fourth year:* One full-course in Bacteriology, Biochemistry 45, Botany 23a, Genetics 44, 45, 43b, 42b or 46a.

Students of satisfactory standing, and having most of the courses required for the first two years, may be admitted at the beginning of the Third year if there is reasonable prospect that they can complete the requirements for the Honours Course in Genetics by the end of the Fourth year.

CONTINUATION COURSES

Second year: Genetics 21.

Third year: Genetics 32a, 32b, 36b.

Fourth year: Genetics 42b to 47b inclusive, except Genetics 44.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

GEOGRAPHY

<i>Professors</i>	F. K. HARE, <i>Chairman</i> TREVOR LLOYD
<i>Associate Professors</i>	J. BRIAN BIRD THEO L. HILLS
<i>Assistant Professors</i>	R. NORMAN DRUMMOND
<i>Lecturers</i>	FRANK C. INNES GEORGE H. MICHIE JOHN T. PARRY
<i>Honorary Lecturer</i>	GEORGE JACOBSEN

FIRST YEAR

111. INTRODUCTION TO HUMAN GEOGRAPHY (Full course). The basic principles of geography illustrated from appropriate parts of the world. The major geographical regions of the earth, the resources, human societies and industries characteristic of each. Geographical aspects of international relations.

3 hours.

Professor Lloyd

(In Arts Division) *No prerequisite.*

121. THE ELEMENTS OF PHYSICAL GEOGRAPHY (Full course). Scientific study of man's habitat. The course is divided into two main parts:

- A. The origin and world distribution of landforms developed under different climates. Major earth resources: water, soils, and minerals.

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- B. Climate and weather; physical processes and properties of atmosphere. The principal climatic belts of the world. Significance of climate as a factor influencing human settlement.

3 hours.

Professors Bird and Hare

(In Science Division) *No prerequisite.*

LATER YEARS

N.B. *The first digit of each course number shows the academic year for which the course is mainly designed. Students in other years may register for any course provided (i) that they have the prerequisites, and (ii) that general registration requirements are fulfilled.*

212. WORLD ECONOMIC GEOGRAPHY (Full course). The relations of people, space, resources, culture and technology. Appraisal of agricultural and industrial resources. The major economic activities and agricultural and industrial regions of the world. Types and patterns of transportation and world trade.

3 hours.

Professor Hills

(In Arts Division) *No prerequisite in 1960-61.*

221. PRACTICAL GEOGRAPHY (Full course). The construction and properties of common map projections. The analysis of topographic maps and aerial photographs. Reconstruction of cultural landscape from cartographic evidence. Special purpose maps: e.g., land use, commodity, population, etc.; their construction and interpretation.

1 hour and laboratory periods.

Professor Drummond

(Science Division) *No prerequisite.*

This course may be taken with a Geography continuation program in either the Arts or Science Division. Otherwise it must be considered to be in the Science Division.

231. THE PRINCIPLES OF REGIONAL PHYSICAL GEOGRAPHY (Full course). The evolution of the landscapes of the earth. A systematic comparison of the physical environments of different regions of the world. An introduction to pedology, hydrology and physical oceanography.

3 hours.

Professor Bird

(In Science Division) *For Honours and Continuation students in Geography and Geology only.*

311. NORTH AMERICA (Full course). Canada and the United States are divided into a small number of natural regions. In each region the physical environment as a background to man's development is first studied. Then in turn, occupation by Indian and European peoples is discussed, leading up to an examination of the present cultural landscape. The part played

by the region in the life of the country and some of its problems are analysed.

3 hours.

Mr. Michie

(In Arts Division) *Prerequisite:* One of Geography 121 or 211 or 231.

314. **THE HUMID TROPICS** (Full course). A comparative regional study of the humid tropical environment with special emphasis on Latin America and the Caribbean. A study of indigenous economies; expansion of mid-latitude nations and colonialism. Present day problems of overpopulation and underdevelopment. Agricultural and industrial potentialities.

3 hours.

Professor Hills

(In Arts Division) *Prerequisite:* Geography 211.

315. **EUROPE** (Full course). Europe as Eurasia's peninsula; its physical geography. Physical and cultural aspects of the population, and the influence of migrations on distribution. Land use, farming, and rural settlement types. Urban settlement, including mining and industrial development. Differentiation of Europe into East and West; nations and states and their competition.

3 hours.

Mr. Innes

(In Arts Division) *Prerequisite:* One of Geography 121 or 211.

318. **WORLD CLIMATES** (Full course). Scope of climatology, physical, dynamic and applied. Governing meteorological processes. The general circulation of the atmosphere and the zonation of world climate. Climatic classification; the methods of Köppen and Thornthwaite. Climate and life: influence of atmosphere on plants, animals and man. Climate and hydrology: the moisture cycle. Climatic change, with special reference to Pleistocene and post-glacial events.

3 hours.

Professors Hare and Orrig

(In Science Division) *Prerequisite:* Geography 121 or 231 or Geology 121 or Botany 11.

319. **THE SOVIET UNION** (Full course). Position, relief, and structure; general physical characteristics, including climate, soil, vegetation, and physiography. Ethnic groups. Correlation between population distribution and physical geography. Migration and settlement. The territorial development of Russia. Land use, agriculture, mining, and other industries. Recent developments and social significance of Soviet economic life. Urbanization. The administrative structure of the Soviet State.

3 hours.

Professor Lloyd

(In Arts Division) *Prerequisite:* One of Geography 121 or 211.

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321. MAP INTERPRETATION AND CARTOGRAPHY (Full course). A study in analysis and interpretation of topographic maps and aerial photographs. Elementary photogrammetry.
1 hour and laboratory periods. *Professor Drummond*
(In Science Division) *Prerequisite:* Geography 121 or 211 or 231 or Geology 121.
411. ECONOMIC GEOGRAPHY (Full course). The influence of geographical factors on economic activity. A functional appraisal of resources both industrial and agricultural; the demands made upon these resources in the past. The location of industry especially the iron and steel industry. The origins and development of modern agriculture. Crops and agricultural practices in the major agricultural regions of the world. The role of the forests and marine resources in the subsistence economics.
3 hours. *Professor Hills*
(In Arts Division) *Prerequisite:* One of Geography 121 or 211 or Geology 121.
413. HISTORICAL GEOGRAPHY (Full course). Relations among man, habitat, and economy in early, medieval, and modern times. Reconstructing the geographical *milieu* of past cultures. Climate and civilization.
3 hours. *Mr. Innes and Staff*
(In Arts Division) *Prerequisite:* Geography 211.
415. POLITICAL GEOGRAPHY (Full course). A study of geographical environments and political groups, the development of states and nations under the major headings of size, shape, situation, boundaries, and location in a world of which the locational geography is being revolutionized by air transport. The theories of Ratzel, Mackinder, Haushofer, Spykman and others are used to illustrate politico-geographic strategy. Europe and Asia are examined by regions, and as divided by ideologies and as a whole, in the wider setting of the new-power-age world of today.
3 hours. *Mr. Michie*
(In Arts Division) *Prerequisite:* Geography 211.
416. TOPICS IN ADVANCED PHYSICAL GEOGRAPHY. The earth's energy and moisture balances in relation to various physiographic and related processes. The Budyko-Grigoriev physico-geographic classifications. Interrelations of physical climatology with other branches of geography.
3 hours. *Mr. Parry, Professors Orvig and Hare*
(In Science Division) *Prerequisites:* Geography 231, 318. Intended primarily for honours and continuation students in geography. *Others must obtain permission of instructor.*

- 417b. THE HISTORY OF GEOGRAPHIC THOUGHT (Half course). The content of geography is traced from the ancient to the modern world. Particular emphasis is given to the development of geographic thought during the nineteenth and twentieth centuries. Reading assignments are made from the original literature.

Second term: 3 hours.

(In Arts Division) For Honours and continuation geography students only. *Permission of chairman required.*

421. THE TECHNIQUE OF REGIONAL STUDIES (Full course). The idea of regional survey. Surveys of land use. Classification of land types. Study of existing regional surveys and projects: the Land Utilization Survey of Britain. The Tennessee Valley Authority, and other North American projects. A regional study will be made of a selected area in Canada.

3 hours.

Professor Drummond

(In Science Division) *Prerequisite:* Geography 221 or 321 and 121 or Geology 121.

HONOURS COURSES

First year students intending to take Honours in Geography should consult the Department before end of session. Honours students will be required to make their selection of Second, Third, and Fourth year courses from the following list. In addition, all Honours students entering their Third or final year are required to participate in the annual field trip held early in the fall.

B.Sc. Students

- Second year:* Geography 121 or 231, 212, 221, 311, Botany 100a or b.
Third year: Geography 231, 321, 318 and one of 314, 315, 319; one course in Geology, and one other course in Botany, Geology, Zoology, Mathematics or Physics.
Fourth year: Geography 416, 417b, 421; one of 314, 315, 319; one of 411, 413, 415; one approved course outside the department.

JOINT HONOURS IN GEOGRAPHY AND BOTANY: See under Department of Botany.

B.A. Students

- Second year:* Geography 121 or 231, 212, 221, 311; any one course in History, Anthropology, Economics, Political Science or a modern language.

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Third year: Geography 321, 415, 411; one of 314, 315, 319; one other course to be selected by the student.

Fourth year: Geography 413, 416, 417b, 421; one of 314, 315, 319.

N.B.—The order in which the above courses are taken may be changed if timetable conflicts arise. Students with special qualifications may also be recommended to follow a slightly different programme.

In addition, all Honours students are required to attend at the beginning of their Third and Fourth years the September field camp held at St. Hilaire. They must also participate in the fall field excursions.

JOINT HONOURS IN GEOGRAPHY AND HISTORY

First year: Geography 111.
History 100.
Three other courses as required by Faculty.

Second year: Geography 212 (World Economic Geography)
Geography 221 (Practical).
History 205 (Colonial Expansion).
Either History 200 (Mediaeval Life and Institutions)
or History 210 (Great Britain).
One other course as required by Faculty.

Third year: Geography 311 (North America).
History 305 (Canada).
One of: Geography 314 (Humid Tropics).
Geography 315 (Europe).
Geography 319 (Soviet Union).
One of: An appropriate Special Subject in History.
History 310 (British Industrial Democracy),
if combined with Geography 313b and 314a.
History 315a (Slavs and Habsburgs) and 315b
(E. Europe), if combined with either Geography
315 or 319.

Fourth year: Geography 413 (Historical).
Geography 415 (Political).
History 405 (Economic, U.S. and Canada).
One of: The Special Subject in History continued from
Third year.
History 420 (Modern Europe).

CONTINUATION COURSES

For B.A. students taking continuation in Geography:

Second year: Geography 212, 221.

Third year: Geography 311, 411.

Fourth year: Geography 413, 415, 314, 315, 319.

For B.Sc. students taking continuation in Geography:

Second year: Geography 231, 221.

Third year: Geography 308, 321.

Fourth year: Geography 416, 421.

Students taking Geography as a continuation subject are advised to consult the Departmental Chairman before completing registration.

It is recommended that continuation students participate in the departmental field excursions, and that continuation students taking Geography 321 attend the St. Hilaire Field Camp in September.

GEOLOGICAL SCIENCES

*Professors*J. E. GILL *Chairman*

T. H. CLARK

E. H. KRANCK

Associate Professors

V. A. SAULL

C. W. STEARN

J. S. STEVENSON

Assistant Professors

L. A. CLARK

P. R. EAKINS

J. A. ELSON

A. J. FRUEH

G. R. WEBBER

Lecturer

H. DEHN

Honourary Lecturer

JOHN C. REED

Research Associate

C. DÜSING

Demonstrators

121. GENERAL GEOLOGY (Full course). First or Second year. The Earth and the Solar System. Its composition by minerals and rocks. Erosive forces (weather, wind, rivers, waves, etc.) modifying its surface, and deformative factors (temperature, compression, etc.), affecting its subsurface structure

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are thoroughly treated. The origin and historical development of the earth and of living things are briefly considered. The economic aspects of all phases of the subject are treated throughout the course.

2 hours lectures and 2 hours laboratory per week, session. Sections to be announced at first meeting; four half-day excursions during October.

Professors Clark and Stearn

Reference books: Agar, Flint, and Longwell, *Geology from Original Sources* (Holt, 1929); Holmes, A., *Principles of Physical Geology* (Ronald Press, 1945); Gilluly, Waters, and Woodford, *Principles of Geology* (Freeman, 1st or 2nd ed., 1951, 1958).

221. MINERALOGY. Second year (Full course). Lectures: crystallography; physical properties and chemical composition of minerals, the more important ore minerals, industrial minerals, rock-forming minerals, uses and sources of supply of economic minerals. Laboratory: study of crystal models and crystals; methods for the determination of the constituents of minerals by blowpipe analyses and by related chemical tests, application of these plus physical characters in the identification of minerals.

2 lectures, 3 hours laboratory per week, session; one full-day field trip in October.

Professor Stevenson

Text: Hurlbut, *Dana's Manual of Mineralogy* (Wiley, 1959).

- 230a. GEOLOGICAL MAPPING. Second or Third year (Half course). Mapping and draughting techniques required by the practising geologist.

First term: 2 lectures and 1 laboratory period.

Professor Eakins

Prerequisite: Geology 121.

Text:

- 231c. FIELD GEOLOGY. Second or Third year (Half course). Two-week field school devoted to geological mapping of selected areas, including preparation of maps, sections and reports from field notes, aerial photographs and other data.

Two-week field school in May.

Professor Eakins

Prerequisites: Geology 230a or Surveying 324 and 352; Geology 232b.

References: Lahee, *Field Geology*, 5th ed. (McGraw-Hill).

- 232b. STRUCTURAL GEOLOGY. Second or Third year (Half course). A systematic survey of rock structures, their origins and practical importance. Laboratory period will be devoted to practical problems.

Second term: 2 lectures and 1 laboratory period.

Professor Eakins

Prerequisites: Geology 121, 221.

Text: Billings, *Structural Geology*, 2nd ed. (Prentice Hall).

- 331a. OPTICAL MINERALOGY. Third or Fourth year (Half course). A study of the optical properties of non-opaque minerals. The laboratory course gives practice in the determinations of these properties, using the polarizing microscope, oriented sections of minerals, and stressing oil-immersion techniques.

First term: 2 lectures, 3 hours laboratory.

Professors Stevenson and L. A. Clark

Prerequisites: Geology 221; or appropriate background in crystallography.

References: Larsen and Berman, *Microscopic Determination of Non-opaque Minerals*, 1934 (Bull. 848, I.S. Geol. Surv.); Wahlstrom, *Optical Crystallography*, 1951 (Wiley).

332. PETROLOGY. Third year. The common igneous, sedimentary, and metamorphic rocks are described and their modes of occurrence discussed. In the laboratory, the first term will be devoted to identification of rocks by methods used in the field, the second to microscopic petrography.

2 lectures and 1 laboratory period per week, session. *Professor Kranch*

Prerequisites: Geology 121, 221.

Text: G. W. Tyrrell, *The Principles of Petrology*, 1949; W. W. Moore, *The Study of Rocks in Thin Section*, 1959.

341. PALEONTOLOGY. Third or Fourth year. The development of ideas concerning the origin of fossils. Kinds of fossils. Collecting, preparation, and naming of fossils. Survey of systematic paleontology, including invertebrates, vertebrates, and plants. The stratigraphic and economic importance of paleontology. Paleogeology, and facies fossils. Micro-paleontology. The influence of paleontology upon the doctrine of evolution.

2 lectures, 1 laboratory period per week, session; two days' field work in October. *Professor Clark*

Prerequisites: Geology 121, or appropriate biological background.

Text: To be announced.

- 342a. GEOMORPHOLOGY. Third or Fourth year (Half course). A study of the surface features of the earth and the processes involved in their origin and modification. Weathering, erosional and depositional processes; landforms produced by water, wind, and glaciers.

First term: 2 lectures and 1 laboratory period.

Professor Elson

Prerequisite: Geology 121.

Text: Thornbury, *Principles of Geomorphology*, 1954.

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343. STRATIGRAPHY. Third or Fourth year. Principles of sedimentation. Weathering and sources of sedimentary rocks, their textures and structures. Structural relationships and areal distribution of sedimentary rocks. Sedimentary environments. Stratigraphic terminology. Lithologic correlation and facies changes; facies maps and stratigraphic illustration. Paleontologic correlation and facies faunas. Reference is made throughout the course to matters of interest to the economic and petroleum geologist. 2 lectures and 2 hours laboratory per week, session; 2 full days of field work during October.

Professors Clark and Stearn

Prerequisites: Geology 121, 221.

Texts: Twenhofel, Principles of Sedimentation, 2nd ed.; Pettijohn, Sedimentary Rocks, 2nd ed.

- 344b. MINERALOGRAPHY. Fourth year (Half course). Identification of ore minerals in polished sections by means of the reflecting microscope; interpretation of their textural relationships and paragenesis; descriptions and classification of ore minerals.

Second term: 2 lectures, 3 hours laboratory.

Professor Stevenson

Prerequisites: Geology 331a or permission of instructor.

Text: Short, Microscopic Determination of the Ore Minerals U.S. Geological Survey Bulletin 914, 1940).

346. ENGINEERING GEOLOGY. Third or Fourth year (Half course). The practical application of geology to civil engineering problems. The behaviour of water in rocks and soils and exploitation and control of ground water. The engineering properties of rocks and soils and the relationship of geology to engineering projects such as dams, tunnels, roads, etc. Sources of construction materials.

Second term: 2 lectures, reading assignments, and 2 hours laboratory.

Professor Elson

Prerequisite: Geology 121.

Reference: Krynine and Judd, Principles of Engineering Geology and Geotechnics (McGraw-Hill).

441. ORE DEPOSITS (Fac. Eng. 1182). Fourth year (Full course). Nature, origin, mode of occurrence, and classification of deposits of metallic and of important non-metallic minerals; typical occurrences; geographical distribution.

2 lectures and 1 laboratory period per week. *Professors Gill and Eakins*

Prerequisites: Geology 231c, 232b, 332.

Text: Bateman, Economic Mineral Deposits (Wiley, 1950).

- 443b. EARTH PHYSICS Fourth year (Half course). Physical properties of the earth, and the processes associated with its existence, as inferred from

astronomy, geodesy, seismology, geology, meteorology, terrestrial magnetic and thermal effects, geochemistry, etc. Hypotheses and theories based upon or explaining the above. Critical evaluation of these hypotheses and theories.

Second term: 3 lectures per week, one of which may be replaced by a conference.

Professor Saul

Prerequisites: Physics 47a, or permission of instructor.

444. GEOLOGY OF NORTH AMERICA. Fourth year (Full course) (Fac.Eng.1180). The geological history, regional geomorphology, and mineral resources of the natural divisions of North America are described. In the laboratory the evolution of life through the ages and geological maps of North America are studied.

2 lectures and one 2-hour laboratory period per week, session.

Professors Eakins, Elson and Stearn

Prerequisites: Geology 231c, 232b, 332a.

Text: Clark and Stearn, The Geological Evolution of North America (Ronald, 1960).

CRYSTALLOGRAPHY 1a (Elementary Crystallography) (Half course). Evidence for the periodic nature of crystalline matter. Repetition theory: types of symmetry consistent with translational periodicity; the geometric combination of symmetry elements to derive the 17 plane groups and 5 plane lattices; extension in the third dimension to develop the 230 space groups, the 14 Bravais lattices, and the 32 point groups. Coordinate systems of crystallography, and the indexing of planes and directions. Transformation of coordinate systems. Gnomonic and stereographic projections. Morphological expression of internal symmetry. The geometry of twinning. Geometric and vector derivation of the reciprocal lattice. X-ray diffraction by periodic structures, including van Laue equations and Bragg's law. The rotating crystal method, and its interpretation by the application of the reciprocal lattice. The powder method, including indexing of powder photographs and the identification of crystalline compounds.

2 lectures and 2 hours laboratory per week.

Professor Frueh

References: M. J. Buerger, Elementary Crystallography (Wiley); Azaroff and Buerger, The Powder Method in X-ray Crystallography (McGraw-Hill).

CRYSTALLOGRAPHY 2b (Crystal Chemistry) (Half course). Review of electronic structure of the atom. Cohesive forces in solids: ionic bonds, including geometrical considerations, Pauling's rules, isodesmic, mesodesmic and anisodesmic compounds, and structure of some inorganic salts including

silicates; van der Waal's forces; the covalent and metallic bonds, including Brillouin zones, electric and magnetic properties, and structures of the elements, intermetallic compounds and sulphides. Polymorphism and order-disorder phenomena. Crystal growth. Solid solution, and unmixing. Twinning. Crystal imperfections.

3 lectures per week.

Professor Frueh

Prerequisite: Crystallography 1a or Geology 221.

References: R. C. Evans, *An Introduction to Crystal Chemistry* (Cambridge); A. F. Wells, *Structural Inorganic Chemistry* (Oxford); W. Hume-Rothery, *Atomic Theory for Students of Metallurgy* (Institute of Metals).

HONOURS COURSE IN GEOLOGY

Students intending to take Honours in Geology should discuss the matter with Professor Clark before registering in the Second year.

Prerequisite: At least a good second class standing in Chemistry 11, Physics 11 and Mathematics 111.

Second year: Geology 121 (General Geology), 221 (Mineralogy), Geology 230a, Chemistry 24 (Physical), Mathematics 224 (Calculus), Physics 23 (Electricity and Magnetism).

Third year: Geology 231c (Field Geology), 232b (Structural), 331a (Optical Mineralogy), 332 (Petrology), 342a (Geomorphology), 346b (Engineering Geology), Chemistry 21 (Systematic Inorganic Chemistry), 73 (half course) (Inorganic Quantitative Analysis) and one Arts course.

Fourth year: Geology 341 (Paleontology) or 344b (Mineralography) 343 (Stratigraphy), 441 (Ore Deposits), 443b (Earth Physics), 444 (Geology of North America), Physics 47a (Applied Geophysics), one Arts course.

Students interested in Crystallography may be permitted to substitute Crystallography 2b for one of the half courses listed above.

Summer Work (in addition to Surveying Field School).

Two seasons' work on approved Geological or Geophysical field parties.

If Geology 121 is taken in the First year, Geology 230a should also be taken in that year. Advanced courses may be taken in subsequent years as advised.

FIVE YEAR HONOURS COURSE IN GEOLOGY AND PHYSICS (GEOPHYSICS)

This course is designed to meet the demand from research institutions and industry for students with joint training in Physics and Geology. Students maintaining an adequate scholastic standard in the course may be admitted to the graduate school in either Geology or Physics.

First year: Physics 11 (General Physics); Mathematics 111 (Trigonometry, Algebra, and Analytical Geometry); Chemistry 11 (General Chemistry); English 100 (English Literature); English 100c (English Composition); Elective.—5 courses in all.

Second year: Geology 121 (General Geology); Geology 221 (Mineralogy); Geology 230a; Physics 23 (Electricity and Magnetism); Physics 24 (Dynamics); Physics 25 (Statics); Mathematics 225 (Calculus); Mathematics 226 (Analytical Geometry);—6½ courses in all.

Third year: Geology 231c (Field Geology, to be taken in May); Geology 232b (Structural Geology); Geology 331a (Optical Mineralogy); Geology 332 (Petrology and Petrography)—first half only; Geology 443b (Earth Physics); Physics 34 (Heat and Thermodynamics); Physics 47a (Applied Geophysics); Mathematics 227 (Algebra); Chemistry 24 (Physical Chemistry).—6 courses in all.

Fourth year: Geology 343 (Stratigraphy); Geology 444 (Geology of North America); Physics 31 (Dynamics of Particles); Physics 33 (Electronics); Physics 35a (Electron Physics); Mathematics 333 (Advanced Calculus); Mathematics 334 (Differential Equations).—6 courses in all.

Fifth year: Geology 441 (Ore Deposits); Physics 43a (Atomic and Molecular Structure); Physics 44a (Radioactivity and Introductory Nuclear Physics); Physics 44b (Particles and Quanta in Modern Physics); Physics 48 (Electrical Measurements); Physics 71 (Applied Geophysics—Advanced); Mathematics 441 (Mathematical Physics); Thesis or elective.—6½ courses in all.

Summer Work (in addition to Surveying Field School):

At least two seasons' work on approved Geological Field Parties and one season's work on a Geophysical Field Party.

If Geology 121 is taken in the First year, Geology 230a should also be taken in that year. Advanced courses may be taken in subsequent years as advised.

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CONTINUATION COURSES

- Second year:* Geology 121, or 221.
Third year: Geology 221 to 444.
Fourth year: Geology 221 to 444.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

GERMAN AND RUSSIAN

<i>Professor</i>	H. S. REISS
<i>Associate Professor</i>	BERTHA MEYER
<i>Assistant Professors</i>	V. R. BLOCK V. LITWINOWICZ
<i>Lecturer</i>	J. N. WESTWOOD

GERMAN SECTION

FIRST YEAR

100. GERMAN LANGUAGE (Full course). Beginners' B.A. Course.

3 hours.

Professors Meyer and Block

Texts: Curts, Basic German, 3rd ed. (Prentice-Hall); Goedsche-Glaettli, Thomas Mann (Amer. Book Co.).

100X. INTRODUCTION TO GERMAN LITERATURE AND THOUGHT in English (Optional course for students of German 1 and any other students by special permission. It does not constitute a half course nor will there be an examination).

1 hour.

(*Not given in 1960-61.*)

150. GERMAN LANGUAGE (Accelerated full course).

6 hours (3 hours lectures, 3 hours practice). *Professors Meyer and Block*

Thorough study of Grammar with intensive practice to ensure greater precision and fluency. Use of readers to introduce topical material, extensive discussion in German; stress on aural comprehension.

Texts: Kirch, Moenkemeyer: *Functional German* (Am. Book Co. N.Y.)

Suitable readers will be chosen according to the progress made by the class. These readers will stress the spoken language rather than the literary.

This course is an accelerated B.A. Beginner's Course primarily for the B.A. degree. It is intended for those more enterprising students who desire voluntarily to take six hours' instruction instead of the customary three hours in order to learn the language more quickly. This course will carry credit for one course only. The students who prove unsatisfactory will, at the discretion of the department, revert to German 100 after two months at the latest. Extensive oral work will reduce the additional homework involved so that it will be not much more than the homework for German 100. It is intended to cover the linguistic work done in German 100 and German 210. On its completion a student will be able to take German 300 or German 310 or a new course which may be instituted next year as German 250. Students who begin German at the University and wish to take Honours in German are normally unable to do so unless they take this course.

Prerequisite: Permission of the Department. Registration limited.

SECOND YEAR

Note: Students who intend to proceed to Course 300 from German 100 must have obtained a high Second Class and are required to read during the summer the following: Kästner, Emil und die Detektive (Holt). Those who intend to proceed to Course 4 from German 1 must have obtained a First Class and are required to study during the summer the following texts: Kästner, Emil und die Detektive (Holt); Storm, Immensee.

GERMAN CONVERSATION

Students who intend to continue German must attend a class in Oral German (one hour a week) until, in the Professor's opinion, they have reached a satisfactory standard.

200. GERMAN LANGUAGE (Full course).

3 hours.

Professors Meyer and Block

Prerequisite: German 100 or Matriculation in German, or their equivalent.

Texts: Purin & Keil, Lern-und Lesebuch, (Holt); E. Meyer, Akademische Freiheit (Houghton-Mifflin); Kästner, Emil und die Detektive (Holt).

Private Reading: Genialische Jugend (Houghton Mifflin).

210. GERMAN LANGUAGE (Full course).

3 hours.

Professors Meyer and Reiss

Prerequisite: German 100 or Matriculation in German.

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Texts: L. J. Russon, Complete German Course for First Examinations (Longmans, Green); Lessing, Nathan Der Weise, (Heath).

Private Reading: Storm, Immensee; Schnitzler, Der blinde Geronimo und sein Bruder (Heath).

THIRD AND FOURTH YEARS

Note: In order to be admitted to the following courses a student must know German well enough to understand lectures delivered in German and express himself with some degree of fluency and correctness.

300. GERMAN LANGUAGE AND LITERATURE (Full course). No student may proceed directly from German 100 to German 300 unless he has completed the summer work as given above.

3 hours.

Professors Block and Reiss

Texts: L. J. Russon, Complete German Course; Goethe, Egmont (Holt); Goethe, Urfaust (Harper).

Private Reading: Thomas Mann, Tonio Kröger (Crofts); Grillparzer, Der arme Spielmann (Inselbücherei No. 82).

310. GERMAN LITERATURE IN THE 18TH CENTURY (Full course).

3 hours.

Professor Meyer

Prerequisite: German 200 and/or German 300.

Texts: Lessing, Emilia Galotti (Heath); Goethe, Iphigenie (Heath); Schiller, Maria Stuart (Holt); Stroebe and Whitney, Geschichte der deutschen Literatur.

Private Reading: Lessing, Minna von Barnhelm; Goethe, Die Leiden des jungen Werthers (Insel-Bücherei, No. 493); Schiller, Kabale und Liebe.

320. GERMAN LITERATURE IN THE 19TH CENTURY (Full course). The important literary movements and writers of the 19th century are studied and discussed. Collateral readings.

3 hours.

Professor Reiss

Prerequisite: Permission of the Department.

330. GERMAN LITERATURE IN THE 20th CENTURY (Full course).

3 hours.

Professors Reiss and Block

Prerequisite: Permission of the Department.

(Not given in 1960-61.)

400. MIDDLE HIGH GERMAN LITERATURE AND LANGUAGE (Full course).

2 hours.

Professor Reiss

Text: Wright-O'C. Walshe, *A Middle High German Primer* (O.U.P. 5th edition).

410. HISTORY OF THE DRAMA IN GERMAN LITERATURE (Full course).

2 hours.

Professor Reiss

(*Not given in 1960-61.*)

420. GERMAN LYRICAL POETRY (Half course).

1 hour, throughout the year.

Professor Reiss

430. GOETHE'S FAUST (Half course).

1 hour, throughout the year.

Professor Block

ADDITIONAL COURSES

20. GENERAL SURVEY OF GERMAN LITERATURE FROM LESSING TO THE PRESENT DAY. This course is given in English for students who do not know enough German to understand lectures in that language. It is not open to those who are taking, or who have taken, any of the courses listed as German 310, 320, 330, 400, 410, 420, 420.

3 hours (Second, Third or Fourth year). *Professors Meyer and Reiss*

German 101 and 102 are designed for candidates who wish to have a sufficient reading knowledge of the German language to meet their purposes as candidates for, for example, the B.Sc. degree or a degree in the Faculty of Graduate Studies.

101. GERMAN LANGUAGE (Full course).

Students intending to proceed from German 101 to German 2 must have obtained a first or high second class and are required to read during the summer: Meyer, *Akademische Freiheit* (Houghton-Mifflin). Those intending to proceed to German 3 must also read Kästner, *Emil und die Detektive*.

3 hours.

Professors Meyer and Block

Texts: Curts, *Basic German*, 3rd. ed. (Prentice-Hall); Fiedler Sandbach, *First German Reader for Science Students* (Oxford).

102. GERMAN SCIENCE READING COURSE (Full course). Method and Practice of Translation. The first half of the course will be devoted to teaching the method of translating, the second half to actual translation of texts

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from various fields of interest. This course is intended for students preparing to fulfil the language requirement for the Ph.D. degree.

2 hours.

Professor Block

Text: C. V. Pollard, *The Practical Solution to German Translation*. (The University Co. Op. Austin, Texas, 1950.)

COGNATE COURSE

LINGUISTICS 221. INTRODUCTION TO THE STUDY OF LANGUAGE. Available to Second and Third year students (Full course).

3 hours.

Professor C. H. Carruthers

(Given in the Department of Classics.)

HONOURS IN GERMAN

Students wishing to take Honours in German should select two courses a year after consultation with the department. In addition, in each year two full cognate courses must be taken in some other department with the approval of the Department of German. Students may begin Honours in German in the Third year instead of the Second year, if in the opinion of the Department they are qualified to do so.

JOINT HONOURS.

1. German and French: see under Department of Romance Languages.
2. German and Greek or Latin: Minimum first year requirements: German 100, Greek 1 or Latin 100 or their equivalents.

Second year:

German: Two courses selected from German 210 (Language and literature), 300 (Language and literature), 310 (18th Century literature).

Greek: Greek 221 and 222.

Latin: Latin 221 and 222.

One approved elective.

Third year:

German: Two full courses selected from German 310 (18th Century literature), 320 (19th Century literature), 330 (20th Century literature), 410 (Drama), 420 (Half course, lyrical poetry), 430 (Half course, Goethe's Faust).

Greek: Greek 331 and 332.

Latin: Latin 331 and 332.

Fourth year:

German: Two full courses chosen from German 320 (19th Century literature), 330 (20th Century literature), 410 (Drama), 420 (Half course, lyrical poetry), 430 (Half course, Goethe's Faust).

Greek: Greek 441 and 442.

Latin: Latin 441 and 442.

3. **German and English:** see under Department of English.

4. **German and History:**

First year: History 100, German 100, and *three* other courses as required by Faculty.

Second year: Two courses selected from: German 210 (Language); German 300 (Language and Literature) and German 310 (German Literature in the 18th century)
History 200 (Mediaeval Life and Institutions)
History 215 (Eastern Europe from the 7th century)
One course selected from: English 200, French Linguistics 21 and Political Science 211H.

Third year: German 310 (Literature in the 18th Century)
German 320 (Literature in the 19th Century)
History 315a (The Slavs and the Habsburg Monarchy)
History 315b (War and Society in Eastern Europe)
History 410 (European Thought since the Renaissance).

Fourth year: German 330 (Literature in the 20th Century)
German 410 (Drama in German Literature)
History 420 (Europe, 1789-1939)
Political Science 311 (History of Political Theory).

5. **German and Philosophy:**

Minimum first year requirement in German: German 1 or its equivalent.

Second year:

German: Two courses chosen from German 210 (Language and literature), 300 (Language and literature), 310 (18th Century literature).

Philosophy: Philosophy 200 (Introduction to Philosophy) and 300 (Ethics). One approved elective.

Third year:

German: Two full courses selected from German 310 (18th Century literature), 320 (19th Century literature), 330 (20th Century

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literature), 410 (Drama), 420 (Half course, lyrical poetry), 430 (Half course, Goethe's *Faust*).

Philosophy: Philosophy 350 (Greek Philosophy) and 360 (Modern Philosophy).

Fourth year:

German: Two full courses selected from German 320 (19th Century literature), 330 (20th Century literature), 410 (Drama), 420 (Half course, lyrical poetry), 430 (Half course, Goethe's *Faust*).

Philosophy: One full course selected from Philosophy 320 (Aesthetics), 340 (Seminar on the Philosophy of History), and 420 (Seminar on the Philosophy of Kant).

And *either* Philosophy 400 (Ethics and Philosophy of Politics), if special field is Ethics,

or Philosophy 410 (Problems of Logic, Epistemology and Metaphysics), if special field is systematic Philosophy.

6. German and Spanish:

First year

Prerequisites: German 100, Spanish 11 and Latin 100, or the equivalent.

Second year

German	Spanish
Two full courses selected from:	Spanish 21 (language and introd. to literature)
German 210 (language)	
German 300 (language and introd. to lit.)	Spanish 22 (Modern Novel, poetry and drama)—(Honours Course)
German 310 (18th cent. literature)	
AND one full course (elective).	

Third year

Two full courses (or the equivalent) selected from:	Spanish 31 (19th cent. lit.)
German 310 (18th cent. lit.)	Spanish 31 (History of the language and Medieval lit.) (Honours Course)
German 320 (19th cent. lit.)	
German 330 (20th cent. lit.)	
German 400 (Middle High German lang.)	
German 410 (History of the drama)	
and:	
Half courses (Honours):	
German 420 (Lyrical poetry)	
German 430 (Goethe's <i>Faust</i>)	

AND one full course (elective).

Fourth year

Two full courses (or the equivalent) selected from the following Honours Courses:
 German 320, 330, 400, 410 (full courses)
 German 420, 430 (half courses)
 Spanish 41 (the Golden Age)
 Spanish 42 (19th cent. drama) (Honours Course)
 Spanish 43 (Spanish-American lit.)

NOTE: If German 310 was taken in the Third year, a third course must be added in the Fourth year, unless three courses were taken in the Third year.

Recommended Electives

Second year: Linguistics 21, or Philosophy 200

Third year: Spanish 32, or a course in English Lit., or an additional course in German, at the Third or Fourth year level.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

RUSSIAN SECTION

Students who take Russian in order to fulfil the Modern Language requirement for the B.A. or B.Sc. degrees must take Russian 100 or 105 and Russian 200 or 205.

Classes in Russian conversation will be available.

FIRST YEAR COURSES

100. RUSSIAN LANGUAGE. First year (Full course).

Reading, grammar, translation, oral practice.

3 hours.

Professor Litwinowicz and others

Texts: G. A. Znamensky, Conversational Russian (Ginn); C. Z. Patrick, Elementary Russian Reader (Pitman).

No prerequisite.

105. RUSSIAN LANGUAGE. Advanced in the first year (Full course).

This course is designed for the students who already possess a certain competence in the Russian language.

3 hours.

Professor Litwinowicz and others

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Texts: G. A. Znamensky, *Conversational Russian* (Ginn); Birkett and Struve, *Chekhov Selections* (Oxford).

Prerequisite: Permission of the instructor.

150. RUSSIAN LANGUAGE (Accelerated full course). Thorough study of Grammar with intensive practice to ensure greater precision and fluency. Use of readers to introduce topical material, extensive discussion in Russian; stress on aural comprehension.
6 hours (3 hours lectures, 3 hours practice).

Professor Litwinowicz and Mr. Westwood

Texts: Horace G. Lunt, *Fundamentals of Russian* (Norton Co.); Anna H. Semenoff, *A First Russian Reader* (J. M. Dent and Sons).

This course is an accelerated B.A. Beginner's Course primarily for the B.A. degree. It is intended for those more enterprising students who desire voluntarily to take six hours' instruction instead of the customary three hours in order to learn the language more quickly. This course will carry credit for one course only. The students who prove unsatisfactory will, at the discretion of the department, revert to Russian 100 or 105 after two months at the latest. Extensive oral work will reduce the additional homework involved so that it will be not much more than the homework for Russian 100 or 105. It is intended to cover the linguistic work done in Russian 100 or 105 and Russian 200 or 205. On its completion a student will be able to take Russian 300 or a new course which may be instituted next year as Russian 250.

Prerequisite: Permission of the Department. Registration limited.

SECOND YEAR COURSES

200. RUSSIAN LANGUAGE. Reading, Translation, Conversation.

3 hours.

Professor Litwinowicz

Texts: Coulson and Duddington, *Russian Short Stories, 19th Century* (Oxford); A. Semeonoff, *A New Russian Grammar* (Dent).

Prerequisite: Russian 100 or equivalent.

205. RUSSIAN LANGUAGE. Translation, Reading, Conversation, Grammar.

3 hours.

Professor Litwinowicz

Texts: Coulson and Duddington, *Russian Short Stories, 19th Century* (Oxford); Baring and Costello, *The Oxford Book of Russian Verse*; A. Semeonoff, *A new Russian Grammar* (Dent).

Prerequisite: Russian 105 or equivalent.

THIRD AND FOURTH YEAR COURSES

Recommended Books for the First and Second year courses:

O'Brian, *New English-Russian and Russian-English Dictionary* (Dover).

Orfograficheskii Slovar' russkogo yazyka, Moscow, 1959.

Forbes, The Russian Verb (Oxford).

Stilman, Russian Verbs of Motion (Kings Crown Press, New York).

Patrick, Roots of the Russian Language (Pitman).

300. RUSSIAN LANGUAGE AND LITERATURE IN THE 19TH CENTURY (Full course).
Grammar. Readings from selected authors, conversation and composition. Course will be conducted in Russian.

3 hours.

Professor Litwinowicz

Texts: I. A. Goncharov, Oblomov; J. S. Turgenev, Ottsy i deti (Columbia); Baring and Costello, The Oxford Book of Russian Verse; Unbegaun, Russian Grammar (Oxford).

Private Reading: Duddington and Gorfodetzky, Tolstoy's Selections (Oxford).

Prerequisites: Russian 200 or 205, and the permission of the instructor.

400. RUSSIAN LANGUAGES AND LITERATURE IN THE XX CENTURY (Full course).
It is intended to trace the development of the Russian novel and language after the October Revolution.

The Course will be conducted in Russian.

3 hours.

Professor Litwinowicz

Texts: M. A. Sholokhov, Tikhit Don; Ronald Hingley, Ed., Soviet Prose (Pitman).

Private Reading: Boris Pasternak, Doktor zhivago (Michigan University Press).

Prerequisite: Russian 300; or permission of the instructor.

Recommended Books for the Third and Fourth year courses.

Smirnitsky, Russko-Angliiskii Slovar' (Moscow, 1958).

Mueller, English-Russian Dictionary (Dutton).

Ozhegov, Slovar' Russkogo Yazyka (Explanatory dictionary).

Akademia Nauk, Russkoye literaturnoye udareniye in proiznosheniye (Orthoepic dictionary).

Preobrazhensky, Etimologicheskii slovar' Russkogo yazyka (Columbia).

Borras and Christian, Russian Syntax (Oxford).

Mirsky, History of Russian Literature (Knopf).

Struve, Soviet Literature (Norman)

HISTORY

<i>Professors</i>	H. N. FIELDHOUSE, <i>Chairman</i> C. C. BAYLEY
<i>Associate Professors</i>	J. I. COOPER W. S. REID M. MLADENOVIC
<i>Assistant Professor</i>	P. ZAGORIN
<i>Lecturer</i>	R. VOGEL
<i>Assistants (1959-60)</i>	JEAN L'ESPERANCE S. L. POLLARD ALLANA SMITH K. TRICKEY G. J. TULCHINSKY F. WILSON

N.B.—Students who wish to study History either as a Continuation subject or as an Honours subject, must consult the Department as to their programme.

100. EUROPEAN CIVILIZATION IN THE MEDIAEVAL AND MODERN PERIODS. First year (Full course). The mediaeval period is studied in terms of its typical institutions: the Empire, the Papacy, feudalism, the gild, the dynastic state, etc. In the modern period, main emphasis is laid on the emergence of the Great Powers and the long-term problems, at home and abroad, which conditioned their policies.

3 hours.

Professors Bayley and Zagorin; Mr. Vogel

- ANCIENT HISTORY 110. First year (Full course). Students who wish to take this course should see the notes above on Continuation and Honours Courses in History.

3 hours.

Given by the Classics Department

200. MEDIAEVAL LIFE AND INSTITUTIONS. Second year (Full course).

3 hours.

Professor Bayley

205. HISTORY OF COLONIAL EXPANSION WITH SPECIAL REFERENCE TO THE BRITISH EMPIRE. Second year (Full course). Approximately one-third of the course will be devoted to the overseas activities of the European States, 1500-1713; the remainder, to the history of the British Empire and Commonwealth. Throughout, emphasis will be placed on economic and social development.

3 hours.

Professor Cooper

(Not given in 1960-61.)

206. HISTORY OF THE AMERICAS: Second year (Full course). From the Colonial period to the present day. An introductory course with particular reference to the United States and to the states of Latin America: Discovery and colonial institutions; the determining forces of geography and of economic development; the problems posed by independence and by territorial expansion.

3 hours.

Professor Cooper

210. HISTORY OF GREAT BRITAIN. Second year (Full course). Survey of the development of British civilization since the Roman invasions. While constitutional and political changes are considered, the emphasis is placed (particularly in the modern period) on the economic, social and intellectual background.

With the consent of the Department, this course may be taken by Third year students.

3 hours.

Professor Reid

215. HISTORY OF EASTERN EUROPE (FROM IVTH CENTURY). Second, Third and Fourth years (Full course). The mediaeval principle of legitimacy and the formation of the first barbarian states: ecclesiastical schism and the political division of Eastern Europe; the conflicts of Byzantines, Germans, Osmanlis, and Slavs; social and economic development: Eurasianism and the interaction of Western, Byzantine, and Eastern cultures.

3 hours.

Professor Mladenovic

220. THE IMPACT OF EUROPE ON THE FAR EAST IN THE NINETEENTH AND TWENTIETH CENTURIES: AN INTRODUCTORY SURVEY. Second and Third years (Full course). Early contacts (commercial, religious); the establishment of colonial empires and spheres of influence; the modernization of Japan; decline and fall of the Manchu regime in China; the First World War and its results; the Japanese invasion of Manchuria; China under Chiang K'ai-Shek; the Second World War in the Pacific and its effects; the installation of the Communist regime in China; the rise of nationalism in southeast Asia; the current policies of the Great Powers. The emergency of Russia in the Far East and Central Asia; Soviet changes in the inherited tsarist policy; Communism in China, Japan, and Korea between the wars; the Russo-Sino-Japanese triangle and the problems of Manchuria, Mongolia, and Sinkiang; the Soviet Union and the establishment of the Chinese People's Republic; the Korean war; Mao Tse-tung and Moscow.

3 hours.

Professors Bayley and Mladenovic

Prerequisite: History 100, Economics 100 or consent of Instructor.

305. HISTORY OF CANADA. Third year (Full course). Early French and English enterprise in northeastern America; staple trades; settlement; colonial

institutions. British America in the era of the American Colonial and French revolutions. Economic and political problems of the early XIXth century; the creation of the Canadian federal state: Western extension: development of the Canadian northland between two World Wars.

With the consent of the Department, this course may be taken by Fourth year students. Students are normally expected to have taken either History 205, 206 or 210 as a prerequisite to this course, but exceptions may be made, at the discretion of the Instructor.

3 hours.

Professor Cooper

310. THE RISE OF BRITISH INDUSTRIAL DEMOCRACY SINCE 1815. Third year (Full course). The economic expansion of Britain following the Napoleonic Wars and the consequent social and political movements: the rise of working class organizations, of trade unions and of the Labour party; the impact of major wars and depression upon Great Britain in the XXth century; the Labour Party's post-war rehabilitation measures.

With the consent of the Department, this course may be taken by Fourth year students.

3 hours.

Mr. Vogel

- 315a. THE SLAVS AND THE HABSBURG MONARCHY (Half course). History of the problem of nationalities and of political stability in Central Europe from the time of the Slavonic migrations to the dissolution of the Austro-Hungarian Empire.

3 hours.

Professor Mladenovic

- 315b. WAR AND SOCIETY IN EASTERN EUROPE (Half course). Historical, cultural, and demographic elements in the relations of the peoples of Eastern Europe and their bearing on the capacity of East European States to wage war; characteristics of East European States warfare; the bolshevik conception of warfare.

3 hours.

Professor Mladenovic

320. THE HISTORICAL BACKGROUND OF CONTEMPORARY EUROPE. Third and Fourth years (Full course).

3 hours.

Professor Fieldhouse

325. SOCIETY OF WESTERN EUROPE FROM THE RENAISSANCE TO THE EVE OF THE FRENCH REVOLUTION. Third and Fourth years (Full course). Study of selected topics in the development of social institutions, religion and culture, from the XVth century to the mid-XVIIIth e.g. Humanism; the Reformation; the expansion of Europe; the scientific revolution of the XVIIth century; the changing character of social classes; the development of absolute monarchy.

3 hours.

Professor Zagorin

326. TUDOR AND STUART ENGLAND. Third and Fourth years (Full course). A study of English society, politics, and thought from the end of the Middle Ages to the beginning of the eighteenth century. Among the topics discussed are, the development of the English state; economic expansion; the religious revolution; the civil war and its consequences; the intellectual and social changes which led to the formation of a liberal political order.
3 hours. *Professor Zagorin*
400. HISTORICAL DEVELOPMENT OF THE INSTITUTIONS OF GREAT BRITAIN. Fourth year (Full course).
3 hours. *Professor Bayley*
401. TECHNOLOGY AND SOCIETY IN MEDIAEVAL AND MODERN EUROPE: A HISTORICAL SURVEY. Fourth year (Full course). The technological leadership of the East; the role of Greeks, Romans, Arabs and Byzantines as transmitters; the period of accelerated borrowing and advance in Europe, XIIth - XVIth centuries; the expansion of Europe and its repercussions on industrial technology and the social order; technology as an instrument of power and welfare in XIXth century Europe; the effects of the diffusion and adoption of European technology in the non-European world during the XXth century.
3 hours. *Professor Bayley*
(Not given in 1960-61.)
405. ECONOMIC HISTORY OF THE UNITED STATES AND CANADA. Third and Fourth years (Full course). Survey of the economic history of the two countries from colonial times to the present. Emphasis is placed on the XIXth and XXth centuries, the expansion and consolidation of industry, and the rise of labour organizations.
Students are normally expected to have taken History 305 as a prerequisite to this course, but exceptions may be made, at the discretion of the Instructor.
3 hours. *Professor Cooper*
410. THE HISTORY OF EUROPEAN THOUGHT SINCE THE RENAISSANCE. Third or Fourth year (Full course).
3 hours. *Professor Reid*
411. HISTORY OF CELTIC BRITAIN AND IRELAND. Third and Fourth years (Full course).
3 hours. *Professor Reid*
(Not given in 1960-61.)
415. HISTORY OF SOVIET RUSSIA (Full course). Geopolitical background; Marxian and non-Marxian roots of the Revolution; the two Revolutions

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and the Civil War; doctrinal foundations of the new order and later ideological changes; economic and political development; international relations; social structure, legal system and military organizations, cultural trends.

Save by special consent of the Department, this course is open only to students who have previously taken either History 420, 320, or 215.

3 hours.

Professor Mladenovic

(Not given in 1960-61.)

416. ECONOMIC HISTORY OF RUSSIA (Full course). Kievan society and mediaeval patrimonial economy; early capitalism; étatism and mercantilism; liberalism; the Revolution and the theoretical foundations of the new system; war-communism and NEP; collectivisation and elimination of private business enterprise; national planning and growth of industry; evolution of agricultural policies; labour and movement of population; problems of target, cost, and prices; incentive, wages and economic differentiation of society; post-stalinist reforms and tendencies; soviet economic relations with the world.

Save by special consent of the Department, this course is open only to students who have previously taken either History 420, 320 or 215.

3 hours.

Professor Mladenovic

420. HISTORY OF EUROPE, 1789-1939. Fourth year (Full course).

For Honours students only.

3 hours.

Professor Fieldhouse

421. HISTORY OF DIPLOMACY, WITH SPECIAL REFERENCE TO BRITISH FOREIGN POLICY SINCE 1815. Third and Fourth years (Full course).

3 hours.

Professor Fieldhouse

(Not given in 1960-61.)

500. SPECIAL SUBJECTS.

Honours students choose one of these special subjects for continuous study during their Third and Fourth years. They are expected to acquire a general knowledge of the subject chosen, and to make a more intensive study of one of its aspects, from original sources.

A period in, or aspect of, Ancient History.

England in the Age of Wyclif.

England and Scotland in the period of the Reformation.

England from the Restoration to the Accession of George III.

Economic and social change in Great Britain, 1832-1914.

British Imperial History — (a) Newfoundland (b) the West Indies in the XVIIth and XVIIIth centuries.

A topic in Canadian History, 1867-1896.

Origins of the First World War (1914-18) with special reference to British foreign policy.

Some aspects of the political history of the Balkans in the XIVth and XVth centuries.

The Russian Revolutions of 1917.

HONOURS IN HISTORY

Honours students are required to have a reading knowledge of such foreign language or languages as may be appropriate to their proposed course of study. The Department will advise individual students on this matter.

In addition to the examination in the subjects taken in the last year, Fourth year Honours students have a general examination on their whole field of historical study.

Under appropriate circumstances, and with permission of the Department, Honours students may take courses in the Institute of Islamic Studies.

With emphasis on the English-speaking world:

First year: History 100. Four other approved courses.

Second year: History 205 or 206 and 210. Three other approved courses.

Third year: History 305, 310, 326, 500.

Fourth year: History 420, 400, 405, 500.

With emphasis on Continental Europe:

First year: History 100. Four other approved courses.

Second year: History 200, 210 and 215. Two other approved courses.

Third year: History 305, 315a, b, 325, 500.

Fourth year: History 410, 415 or 416, 420 and 500.

JOINT HONOURS

I. Honours in History and Philosophy:

First year: History 100 and four other approved courses.

Second year: History 200 and 215.
Philosophy 200 and 300.

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Ancient History 110 (or, if this has been taken in the first year, Ancient History 210 or 220) in the Classics Department.

Third year: History 410.

Two courses selected from Philosophy 350, 360 or 370.

One course selected from History 305 or whichever of Philosophy 350, 360, 370, has not been already chosen.

Fourth year: History 400 and 420.

Philosophy 400 and 340.

II. Honours in History and Political Science.

1. For students specializing in *International Relations*:

First year: History 100 and Four other courses as required by Faculty: one of these to be an approved Modern Foreign Language.

Second year: Political Science 211H.
History 200 or 220 and 215.

And *two other approved courses*: one of which shall be in a Modern Foreign Language selected in First year.

Third and

Fourth years: Political Science 311, 323, 344 and either 411 or 412.
History 315a, b, 415 or 416, 420 and 421.

2. For students of *Comparative Government and General History*:

First year: History 100 and Four other Courses as required by Faculty.

Second year: Political Science 211H.
History 200, 205 or 206 and 210.
And *one* other approved course.

Third and

Fourth years: Political Science 311, 351, 411 and either 322 or 355a, 325b. History 305, 420 and one of 310, 400, 405. One other approved course.

Students who propose to study Comparative Government with an emphasis on the totalitarian regimes may be permitted to substitute History 215 for either History 205 or 210, and to substitute History 415 or 416 as an elective in History in the Fourth year.

III. For Honours in History and Economics, see under the Department of Economics and Political Science.

For Honours in History and English, see under the Department of English.

For Honours in History and Geography, see under the Department of Geography.

For Honours in History and German, see under the Department of German.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

MATHEMATICS

Professors

E. M. ROSENTHALL, *Chairman*

CHARLES FOX

HERBERT TATE

H. W. E. SCHWERTFEGER

P. R. WALLACE

Associate Professors

M. D. BURROW

IRWIN GUTTMAN

HYMAN KAUFMAN

JOACHIM LAMBEK

E. L. LOMON

T. F. MORRIS

B. A. RATTRAY

R. T. SHARP

C. D. SOLIN

Assistant Professors

G. G. BACH

SAMUEL MELAMED

G. D. FINDLAY

NORMAN OLER

MICHAEL HERSCHORN

DAVID SUSSMAN

SIDNEY KAHANA (On leave)

W. A. O'N. WAUGH

H. C. KHARE

Lecturers

A. I. GOLDRICH

I. H. SHTERN

I. F. GRIFFITHS

H. SCHIFF

D. M. KINGSBURY

MRS. H. SCHWERTFEGER

R. A. PATTERSON

J. F. SHUPE

L. F. S. RITCEY

A. D. TEITLEBAUM

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Demonstrators

D. A. BONYUN

J. BROWN

J. D. DIXON

MARTIN HARROW

MRS. P. JAIN

ISRAEL KLEINER

T. H. LUKE

S. P. MORRIS

G. T. NEEDLER

FIRST YEAR

First year students will normally register for Mathematics 111.

Courses 113 and 216 are of a more advanced nature and concentrate on the development of facility in doing difficult and interesting problems. Students who have passed well in Intermediate Algebra and Trigonometry at Junior Matriculation should take 113 or 216 instead of 111.

111. TRIGONOMETRY, ALGEBRA, ANALYTICAL GEOMETRY (Full course).

PLANE TRIGONOMETRY. Radian measure, logarithms, definitions of the trigonometrical functions, relations between the trigonometrical functions, reduction of angles, addition formulae, transformations of sums and products, logarithmic solution of triangles, problems in heights and distances, inverse functions, solution of trigonometric equations, graphs.

ALGEBRA. Variation, progressions, permutations and combinations, mathematical induction, binomial theorem, theory of quadratic equations.

ANALYTIC GEOMETRY. The analytic geometry of the straight line and circle.

3 hours.

Professor Tate and Staff

Text: H. TATE, Elementary Mathematical Analysis (Pitman).

113. ADVANCED TRIGONOMETRY AND ALGEBRA (Full course). The number system, elementary number theory, algebra, plane analytic geometry, advanced trigonometry.

3 hours.

Professor Burrow

Text: A. S. Ramsey, Analytic Geometry (C.U.P.)

COURSES FOR GENERAL STUDENTS

216. SURVEY OF MATHEMATICS (Full course). Review of trigonometry. The analytic geometry of the straight line and circle. Permutations and combinations, binomial theorem, mathematical induction, complex numbers, functional notation, remainder theorem, solution of equations, elementary solid geometry, polyhedra, elementary introduction to logic and set theory.

3 hours.

Professor Oler and Staff

Texts: Robin Robinson, *Analytic Geometry* (McGraw-Hill); T. S. Peterson, *College Algebra* (Harper).

- 220a. ANALYTIC GEOMETRY (Half course). The analytic geometry of the straight line, circle, parabola, ellipse and hyperbola, the general equation of the second degree, elements of the analytic geometry of three dimensions.

First term: 3 hours.

Professor _____

Text: Edwin J. Purcell, *Analytic Geometry* (Appleton-Century).

224. ELEMENTARY CALCULUS (Full course). Review of analytic geometry, limits, differentiation and integration of elementary functions, with application to the determination of lengths, areas, and volumes and the solution of simple problems in mechanics, physics, etc.; partial differentiation.

This course is intended to give students of biochemistry, chemistry, economics, and sociology a working knowledge of the elements of calculus.

3 hours.

Professor Tate and others

Prerequisite: Mathematics 111 or 113 or 216.

Text: R. R. Middlemiss, *Differential and Integral Calculus* (McGraw-Hill).

323. ELEMENTARY STATISTICS (Full course). Use and misuse of statistics; elementary probability and probability distributions; the normal distribution; significance tests; methods of classifying data; sampling from the normal; confidence regions.

3 hours.

Professor _____

Prerequisite: Mathematics 224.

Texts: S. S. Wilks, *Elementary Statistical Analysis* (Princeton); Wallis and Roberts, *Statistics: A New Approach* (Free Press).

329. THEORY OF INTEREST AND LIFE INSURANCE (Full course). Simple and compound interest, discount, annuities certain, sinking funds, bonds, mortgage amortization, depreciation, calculation of life annuities, premiums and reserves on life insurance policies.

3 hours.

Professor Tate

Prerequisite: Mathematics 224.

330. FURTHER CALCULUS AND DIFFERENTIAL EQUATIONS (Full course). Hyperbolic functions, partial differentiation, infinite series, beta and gamma functions, multiple integrals, solution of ordinary differential equations by means of operators, solution in series.

3 hours.

Professors Solin and Melamed

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Text: T. S. Peterson, *Elements of Calculus* (Harper); Kells, *Elementary Differential Equations* (McGraw-Hill).

Prerequisite: Mathematics 224.

435. HIGHER ALGEBRA (Full course). The number system; introduction to the concepts of group, ring and field; polynomials and theory of equations; matrices and determinants; systems of linear equations.

3 hours.

Professor _____

Prerequisite: Mathematics 224.

Texts: Marie J. Weiss, *Higher Algebra for the Undergraduate* (Wiley); Kemeny, Snell and Thompson, *Introduction to Finite Mathematics* (Prentice-Hall).

HONOURS COURSES

NB. No student may register for an Honours course without the consent of the Department. This does not apply to Honours students in Chemistry who wish to take 222, 223, 332 or 447.

Second year

222. ANALYTIC GEOMETRY AND VECTORS (Full course). Analytic Geometry of two dimensions, including the ellipse, parabola and hyperbola, vector Algebra with applications to analytic geometry of lines and planes in three dimensions, coordinate systems in three dimensions, quadric surfaces.

3 hours.

Professor Sussman

Textbook: H. B. Phillips, *Analytic Geometry and Calculus* (Wiley).

223. CALCULUS (Full course). Limits and continuity, derivative and differential, integration, trigonometric, exponential, logarithmic and hyperbolic functions, complex numbers, vector algebra, and determinants, elements of partial differentiation.

3 hours.

Professor P. R. Wallace

Textbook: Phillips, *Analytic Geometry and Calculus* (Wiley).

225. CALCULUS (Full course). Limits, derivatives, and integrals. Application of differentiation and integration to the solution of problems involving maxima and minima, rates, curvature, lengths of curves, areas, volumes of solids, centres of gravity, and similar problems. Theorems of Rolle and Taylor. Partial Differentiation.

3 hours.

Professor Rosenthal

Prerequisite: High standing in Mathematics 111 or 113 or 216.

Text: C. R. Wylie, *Calculus* (McGraw-Hill).

226. PLANE AND SOLID ANALYTIC GEOMETRY (Full course). The plane analytic geometry of the straight line, circle, parabola, ellipse, hyperbola, the general equation of the second degree, polar co-ordinates. The line, plane, sphere, central conicoids, paraboloids, and ruled surfaces of the second degree in three dimensions. Spherical Trigonometry.

3 hours.

Professor Solin

Texts: A. B. Grieve, *Plane and Solid Analytic Geometry* (Bell); MacRobert and Arthur, *Spherical Trigonometry* (Methuen).

227. VECTORS, DETERMINANTS AND ALGEBRA (Full course). Algebra of vectors; scalar and vector product of two vectors; multiple products; differentiation of vectors with applications; determinants; Cramer's rule; special determinants. Complex numbers, including De Moivre's theorem and geometrical representation; matrices; consistency of systems of linear equations and numerical methods for their resolution; characteristic equation of a numerical matrix; polynomials in one variable, numerical solution of equations.

3 hours.

Professor Wallace

Third year

331. STATICS, DYNAMICS OF A PARTICLE, AND RIGID DYNAMICS (Physics 31) (Fac. Eng. 1268) (Full course).

(a) Dynamics of a particle in one and two dimensions, motion of pairs of particles, introduction to dynamics of rigid bodies, mass systems.

First term: 3 hours.

Professor F. R. Terroux (Physics)

Texts: Lamb, *Statics*; and Lamb, *Dynamics* (C.U.P.).

Reference books: Synge and Griffith, *Principles of Mechanics* (McGraw-Hill); Slater and Frank, *Mechanics* (McGraw-Hill).

(b) Central orbits, elements of rigid dynamics in two and three dimensions, Lagrange's equations with simple applications, oscillation about equilibrium positions.

Second term: 3 hours.

Professor Lomon

Prerequisite: Mathematics 225, Physics 24, 25.

Text: Slater and Frank, *Mechanics* (McGraw-Hill).

Reference Books: The books listed in (a) above.

332. INTERMEDIATE CALCULUS AND DIFFERENTIAL EQUATIONS (Full course). Partial differentiation, Jacobians and implicit functions, mean value theorems, Green's theorem, Stokes's theorem, Taylor's series, line and multiple integrals, vectors. Solution of ordinary differential equations,

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especially with constant coefficients, solution in series by the method of Frobenius, introduction to partial differential equations. Fourier series.

3 hours.

Professor Bach

Prerequisite: Mathematics 223.

Texts: Sherwood and Taylor, *Calculus* (Prentice-Hall); Kells, *Elementary Differential Equations* (McGraw-Hill).

333. ADVANCED CALCULUS (Full course). Partial differentiation, Jacobians and implicit functions, Riemann-Stieltjes integral, mean value theorems and Taylor series, indeterminate forms, line integrals, Green's and Stokes's theorems, vectors, definition of analytic functions of a complex variable, poles and residues, evaluation of definite integrals, the Gamma function and related definite integrals.

3 hours.

Professors Fox and Rosenthal

Prerequisite: Mathematics 225.

Texts: Franklin, *Methods of Advanced Calculus* (McGraw-Hill); R. V. Churchill, *Introduction to Complex Variables and Applications* (McGraw-Hill).

334. DIFFERENTIAL EQUATIONS (Full course). Solution of ordinary differential equations by means of operators, series and iteration methods; boundary value problems and orthogonal functions; introduction to partial differential equations; solution of partial differential equations of mathematical physics by use of Fourier series and integrals; Bessel functions, Legendre polynomials and applications, Laplace transforms, calculus of variations.

3 hours.

Professor Burrow

Prerequisite: Mathematics 225.

Texts: F. B. Hildebrand, *Advanced Calculus for Engineers* (Prentice-Hall); R. V. Churchill, *Fourier Series and Boundary Value Problems* (McGraw-Hill); F. H. Miller, *Partial Differential Equations* (Wiley).

Third or Fourth year

- 341b. MATHEMATICAL LOGIC (Half course). Propositional and predicate calculus; Peano's axioms and formalised arithmetic; algebra of classes and relations; formal set theory and the axiom of choice.

Second term: 3 hours.

Professor Lambek

Prerequisite: Mathematics 224.

- 342b. INTRODUCTION TO MATHEMATICAL STATISTICS (Half course). Populations and samples; sample frequency distributions; sample mean and standard deviation; elementary probability and probability distributions; the

binomial, Poisson and normal distributions; sampling from the normal distribution, including Student's—t, Chi-Square, and Fisher's F—distributions; confidence limits and tests of hypotheses; elementary regression analysis.

Second term: 3 hours.

Professor Guttman

Prerequisite: Mathematics 225.

Texts: P. B. Hoel, *Introduction to Mathematical Statistics* (Wiley); D. A. S. Fraser, *Statistics, An Introduction* (Wiley).

- 343a. THEORY OF NUMBERS (Half course). The number system; repeating decimals; congruences; Diophantine equations; continued fractions; nonlinear congruences; quadratic residues.

First term: 3 hours.

Professor Lambek

Prerequisite: Mathematics 224.

Text: B. W. Jones, *The Theory of Numbers* (Rinehart and Co.)

344. GEOMETRY (Full course). Selected topics from affine, projective, order, Euclidean, elliptic, hyperbolic and conformal geometry; convex sets; classical differential geometry of curves and surfaces; topological classification of surfaces.

3 hours.

Professor Rosenthal

Prerequisite: Mathematics 224.

- 345a. MATRIX ALGEBRA (Half course). Theory of systems of linear equations and its interpretation in n-dimensional geometry, linear homogeneous transformations and matrix algebra, equivalence and congruence, symmetric, Hermitian and skew-symmetric matrices; eigenvalues and eigenvectors of matrices.

First term: 3 hours.

Professor ———

Prerequisites: Mathematics 225, 227.

Text: H. Schwerdtfeger, *Introduction to Linear Algebra and the Theory of Matrices* (Noordhoff, Groningen).

Fourth year

433. ADVANCED MATHEMATICAL STATISTICS (Full course). Characteristics of probability distributions; sampling from the normal; sufficient statistics and their use in estimation and tests of hypotheses; non parametric theory and order statistics; analysis of variance and elementary design of experiments, the multi-variate normal.

3 hours.

Professor Guttman

Prerequisites: Mathematics 333, 342b.

Texts: D. A. S. Fraser, *Statistics, An Introduction* (Wiley); A. M. Mood, *Introduction to the theory of Statistics*, (McGraw-Hill); S. S. Wilks, *Mathematical Statistics* (Princeton).

434. PROBABILITY (Full course). Introduction, combinatorial analysis, conditional probabilities, expectations, distributions, central limit theorem, generating functions, random walks, recurrent events, Markov chains.
3 hours. Professor Waugh

Prerequisite: Mathematics 333.

Text: William Feller, *An Introduction to Probability Theory and its Applications*, (John Wiley 2nd edition, New York 1957).

The first half of this course, designated 434a, will be taken by Fifth year Honours students in Mathematics and Physics. All other students must take the full course.

- 440a. COMPLEX VARIABLE THEORY (Half course). Topics selected from: Rouché theorem, infinite products, entire functions, maximum modulus theorem, analytical continuation, harmonic functions, Dirichlet problem, conformal mapping, Plemelj formulae with simple applications to integral equations, multiple-valued functions.

First term: 3 hours.

Professor Fox

Prerequisite: Mathematics 333.

Text: L. V. Ahlfors, "*Complex Analysis*" (McGraw-Hill).

(Not given in 1960-61.)

441. MATHEMATICAL PHYSICS (Physics 41) (Fac. Eng. 1290 and 1390) (Full course). Vibration problems, eigenfunctions and eigenvalues, sound waves, scattering problems. Fourier transforms and application to problems of heat conduction and diffusion. Introduction to relativity and wave mechanics.

3 hours.

Professor Wallace

Texts: Joos, *Theoretical Physics* (Blackie); Lindsay, *Methods and Concepts in Theoretical Physics* (Van Nostrand).

- 442a. LINEAR ALGEBRA (Half course). Fields; vector spaces; linear transformations; linear groups and canonical forms; quadratic forms.

First term: 3 hours.

Professor Schwerdtfeger

- 442b. ALGEBRAIC SYSTEMS (Half course). Groups, rings and ideals; fields; polynomial ideals; lattices and projective geometry; solution of linear inequalities.

Second term: 3 hours.

Professor Schwerdtfeger

443. METHODS OF NUMERICAL ANALYSIS (Full course). Numerical solution of linear, algebraic, and transcendental equations, inversion of matrices, computation of eigen values and eigen vectors of matrices, orthogonal functions.

2 hours and laboratory.

Professor Schwerdtfeger

Text: L. Nielson, *Methods in Numerical Analysis* (Macmillan Co.).

444. ANALYSIS (Full course). The real number system; metric spaces; compactness; completeness; continuous functions on a compact metric space; Lebesgue integral; Fourier series; selected topics from the theory of functions of a complex variable.

3 hours.

Professor Rosenthal

Texts: W. Rudin, *Mathematical Analysis* (McGraw-Hill); L. V. Ahlfors, *Complex Analysis* (McGraw-Hill).

- 446a. FLUID DYNAMICS (Half course). The equations of motion, conservation of energy and circulation, the theory of images, complex potential and conformal transformation methods, especially solutions for vortex arrays and aerofoil theory, Stokes's stream function for three-dimensional solutions, the equations of viscous flow and boundary layer motion.

First term: 3 hours.

Professor Fox

Texts: Milne-Thomson, *Hydrodynamics* (Macmillan); Ramsey and Besant, *Hydro-Mechanics* (C.U.P.).

- 446b. MATHEMATICAL THEORY OF ELECTRICITY AND MAGNETISM (Half course). Basic theory of electrostatics and steady current theory, using the theory of images and complex potentials; magnetism, magnetic effects of currents and electro magnetic induction, Maxwell's equations, reflection and refraction of waves; rectangular wave guide propagation; dipole radiation and antennae.

Second term: 3 hours.

Text: Slater and Frank, *Electro-magnetism* (McGraw-Hill).

(Not given in 1960-61.)

447. HIGHER MATHEMATICS FOR CHEMISTS. For chemists and other qualified students (Full course). Selected topics in algebra, advanced calculus, and mechanics, designed for prospective students of Quantum Chemistry.

2 hours.

Professor Sharp

Prerequisites: Mathematics 223, 332.

- 448b. ADVANCED DYNAMICS (Half course). General formulation of Lagrangian dynamics, Hamiltonian equations. Least action principle. Canonical

transformations. Poisson brackets. Hamilton-Jacobi theory. Theory of Spinors.

Second term: 3 hours.

Professor Wallace

Text: Goldstein, Classical Mechanics.

- 449a. TENSOR ANALYSIS. Covariant and contravariant tensors and their laws of transformation, the fundamental tensors. Covariant and contravariant differentiation. The Riemann-Christoffel Tensor and the Bianchi identities, applications to geometry, classical dynamics, and the theory of Relativity. Four-dimensional space-time. Einstein's law of gravitation and the Schwarzschild solution.

First term: 3 hours.

Professor Lomon

Text: B. Spain, Tensor Analysis (Oliver and Boyd).

450. THEORY OF FINITE DIFFERENCES AND LIFE CONTINGENCIES (Full course). Finite Differences, theory of interest and of single and multiple life functions.

3 hours.

Dr. Rilcey

Prerequisites: Mathematics 224, 330.

Text: C. W. Jordan, Life Contingencies (Society of Actuaries); Donald, Compound Interest and Annuities Certain (C.U.P.).

451. QUANTUM THEORY OF MATTER. (Full course). Quantum Principles and their application to the various fields of modern physical science, valence theory, structure of molecules; quantum theory of solids; theory of the nucleus; high energy processes, mesons and hyperons.

3 hours.

Professor ———

Text: R. B. Leighton, Principles of Modern Physics (McGraw-Hill).

Reference: U. Fano and I. Fano, Basic Physics of Atoms and Molecules (Wiley).

(Not given in 1960-61.)

- 452a. GENERAL METHODS OF CLASSICAL AND RELATIVISTIC MECHANICS (Half course). Hamiltonian Equations, Principal of Least Action, Canonical Transformations, Poisson Brackets, Hamilton-Jacobi Theory, Action-Angle Variables. Relativistic Particle Mechanics, including motion of charged particles in the electromagnetic field, relativistic theory of angular momentum and centre of mass. Lagrangian and Hamiltonian treatment of continuous fields.

First term: 3 hours.

Professor ———

Reference books: Goldstein, Classical Mechanics (Addison Wesley); Bergmann, Introduction to the Theory of Relativity (Prentice-Hall).

(Not given in 1960-61.)

452b. TENSOR ANALYSIS AND GENERAL RELATIVITY (Half course). The Theory of Tensors, with applications to general relativity and cosmology.

Second term: 3 hours.

Professor _____

References: E. Schrödinger, *Space-Time Structure* (Cambridge); B. Spain, *Tensor Calculus* (Oliver and Boyd).

(Not given in 1960-61.)

453b. GROUP THEORY (Half course). Subgroups, permutation groups, homomorphism and quotient group, Jordan-Hölder's theorem, generators and relations, graphs, Abelian groups, fields, rings, polynomials, ideal theory.

Second term: 3 hours.

Professor Schwerdfeger

Texts: W. Ledermann, *Introduction to the Theory of Groups of Finite Order* (Oliver and Boyd); A. G. Kurosh, *Theory of Groups*, vol. 1 (Chelsea); B. L. Van der Waerden, *Modern Algebra*, vol. 1 (Chelsea).

(Not given in 1960-61.)

SUMMARY OF ORGANIZED COURSES OF STUDY

The following courses of study are designed to give students the maximum opportunity of entering various fields in which mathematical training is fundamental. Attention is particularly called to opportunities in: research in Pure and Applied Mathematics; teaching in Universities and High Schools; applications to engineering and the physical and biological sciences; statistical work in industry and government departments; actuarial work in insurance companies.

(a) Continuation Courses for the General Degree.

These are: Second year: 224; Third year: 323, 329, 330; Fourth year: 329, 330, 435, 450. (See pages 1111, 1112 and 1118.)

Substitutions may be made only with the permission of the chairman.

(b) General Degree with Special Distinction in Mathematics.

Prerequisite: High Standing in First year Mathematics.

Second year: Mathematics 225, 226.

Third year: Mathematics 227, 333.

Fourth year: Any two Mathematics Honours courses of the Third and Fourth years for which prerequisite requirements are satisfied.

This course of study may be combined with any combination of other subjects which satisfy the normal requirements for the General Degree.

ARTS AND SCIENCE

HONOURS COURSES

(c) Honours in Mathematics.

Prerequisite: High standing in First year mathematics.

Second year: 225, 226, 227, and two other approved courses, normally not in mathematics.

Third year: 333, 334, 345a, 342b, one of 329, 331; 341b, 343a; 344 and one approved course, not in mathematics.

Fourth year: 442a,b, 444 and the equivalent of two approved full courses chosen from 341b, 343a, 344, 433, 434, 440a, 441, 443, 446a, 446b, 453b or Physics 42, 448b, 449a, 450 and one other approved course, normally not in mathematics.

Ordinary students who intend to pursue a course in Actuarial Mathematics should take:

Mathematics 216, 224 in their Second year,
Mathematics 330, 435, in their Third year,
Mathematics 345a, 342b, 450 in their Fourth year,
and should consult the Chairman of the Department.

(d) Honours in Mathematical Physics

Second year: Mathematics 225, 226, 227. Physics 23, 24, 25.

Third year: Mathematics 333, 334, 345a; Physics 31 (Mathematics 331), 35, 36; and either Physics 33 or one other approved half-course in mathematics.

Fourth year: Mathematics 440a, 453b, 441, 451, 452 a, b, Physics 34, 40, 42.

JOINT HONOURS COURSES

(e) Honours in Economics and Mathematics. See under Department of Economics.

(f) Joint Honours in Mathematics and Philosophy.

Second year: Mathematics 225, 226, 227, Philosophy 200.

Third year: Mathematics 333, 334, Philosophy 310, 350, 360.

Fourth year: Mathematics 442a,b, 444, Philosophy 350 or 360, 410.

In the Second year one elective will be chosen in consultation with the joint Departments.

Students may also be asked to take a seminar course in Philosophy.

(g) Joint Honours in Mathematics and Psychology.

Second year: Mathematics 225, 226, 227, Psychology 21 and one other approved full course.

Third year: Mathematics 333, 334, 342b, 345a, Psychology 31, 34.

Fourth year: Mathematics 433, 444, Psychology 44, 46 and one other approved full course.

(h) Honours Course in Mathematics and Physics.

Prerequisite: High standing in First year mathematics and physics.

Four Year Course

Students completing their First year in or before 1960 will take this course.

Second year: Mathematics 225, 226, 227, Physics 23, 24, 25.
One other approved course may be added as an extra.

Third year: Mathematics 333, 334, Physics 31, 32, 33, 34, 35a, 36.

Fourth year: Mathematics 441, 442a, 444, 446a or 448b, Physics 42, 43, 44b, 48.

(i) Joint Honours in Mathematics and Physics (Five Year Course).

Students who complete their First year in 1961 or later will take this course.

Prerequisite: High Standing in First year Mathematics and Physics.

Second year: Mathematics 225, 226, 227, Physics 23, 24, 25.

Third year: Mathematics 333, 334, Physics 31, 33, 35, 36 and either Physics 32 or Mathematics 345a.

(i) Students who propose to enter the Fourth year of the Honours in Mathematical Physics must take Mathematics 345a in the Third year.

(ii) Students who propose to enter the Fourth year of the Honours Physics course must take Physics 32 in the Third year.

Fourth year: Mathematics 440a, 441, Physics 34, 42, 48, 49 and that one of Mathematics 345a and Physics 32 which was not taken in the Third year and one other approved full course not in Mathematics or Physics.

Fourth year: Mathematics 453b, 434a, Physics 40, 43b, 44 and either Mathematics 451 or Mathematics 452a, b and 3 other approved full courses, one of which must be a continuation

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of the course chosen in the Third year which was neither Mathematics nor Physics.

Note that by choosing his programme in the Third year to satisfy conditions (i) or (ii) it is possible for a student to transfer to the Fourth year Honours course in Mathematical Physics or in Physics.

Note—Mathematics 331 = Physics 31 and Mathematics 441 = Physics 41.

Students intending to proceed later with advanced or graduate training in Meteorology may, with the approval of the departments concerned, substitute course 301 Meteorology, (see page 1123) instead of one full or two half courses in Fourth year Mathematics.

It is recommended that a reading knowledge of scientific French and German be acquired before the end of the Fourth year, in courses (c), (h), and (i) above.

(j) Engineering Physics.

This course, leading to a B.Eng. degree, is fully described in the Announcement of the Faculty of Engineering.

(k) Courses in the Faculty of Engineering.

These are described in detail in the Announcement of the Faculty of Engineering

MEDAL

Attention is drawn to the Ann Molson Gold Medal, awarded annually.

GRADUATE COURSES IN PURE AND APPLIED MATHEMATICS

Organized courses of study are available for graduate work leading to a Master's degree. Details are available in the Announcement of the Faculty of Graduate Studies and Research.

METEOROLOGY

Professors

J. S. MARSHALL, *Chairman*

F. K. HARE

Associate Professors

R. H. DOUGLAS

SVENN ORVIG

Assistant Professor

B. W. BOVILLE

301. INTRODUCTION TO METEOROLOGY (Full course). Physical properties of the atmosphere. Radiation and the energy balance; causes of circulation. Clouds and precipitation. Winds and pressure. Baroclinicity; fronts and air masses. Use of instruments. Synoptic analysis.

2 lectures, 3 laboratory hours.

The Staff

Prerequisites: Mathematics 224 or 225 and Physics 11, 22a and 24, or permission of chairman.

It is hoped to announce in September new courses in the Second, Third and Fourth years, making Meteorology available as a continuation subject in the General Curriculum.

MUSIC

MEMBERS OF THE FACULTY OF MUSIC

The courses in Music are open to those who have the qualifications for the regular courses of Music given in the Faculty of Music. The following courses may be taken as electives in the Faculty of Arts and Science. The first course of Music is for those who have offered Music as a Matriculation subject.

1. FIRST YEAR (Full course).

Harmony 101 (Faculty of Music)

Three hours.

An elementary course in written and keyboard harmony comprising a study of the following harmonic materials and techniques:

Triads and dominant seventh chords in all dispositions and inversions; principles of chord progression; part-writing drills; study of the conventional harmonic formulas and cadences; harmonic analysis; harmonization of melody and bass (unfigured) in Bach chorale style using triads, dominant seventh chords and elementary modulations; also the composition of phrases in chorale style.

Texts: McHose, Basic Principles of the Techniques of 18th and 19th Century Composition (Chs. 13-31); McHose and White, Keyboard and Dictation Manual (Chs. 1-9).

Students will also be required to devote three hours weekly to aural training.

2. SECOND YEAR (Full course).

History and Analysis 101 (Faculty of Music). Introduction to the history and literature of Western music with special emphasis upon the nature of musical materials and styles. One weekly period will be

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devoted to a study of analytical techniques (motivic, melodic, harmonic, and structural analysis).

4 hours.

Texts: Parrish and Ohl, Masterpieces of Music before 1750; Sachs, Our Musical Heritage; Boyden, An Introduction to Music.

3. THIRD YEAR (Full course).

History and Analysis 201 (Faculty of Music).

Four hours.

Music of the Classical and Romantic Periods. A comparative study of selected masterworks of both periods aimed at a definition of the classical-romantic antithesis in terms of musical styles.

Texts: Lang, Music in Western Civilization.

4. FOURTH YEAR (Full course).

History and Analysis 301 (Faculty of Music).

Four hours.

Music of the Renaissance and Baroque periods. A study of the style and character of Renaissance and Baroque music considered both autonomously and in relation to the intellectual and aesthetic currents of these periods. The course will include detailed analysis of contrapuntal forms.

Texts: Apel and Davison, Historical Anthology of Music, Vols. 1 and 2; Bukofzer, Music in the Baroque; Lang, Music in Western Civilization; Reese, Music in The Renaissance.

PHILOSOPHY

Professors

J. W. MILLER, *Chairman*

T. G. HENDERSON

RAYMOND KLIBANSKY

Associate Professors

CECIL CURRIE

ALASTAIR MCKINNON

Lecturers

A. GOMBAY

S. MCCALL

J. D. ROSS

GENERAL COURSES

200. INTRODUCTION TO PHILOSOPHY. Second year (Full course).

An introduction to the chief problems of Philosophy in connection with their development in Greek, mediaeval, and modern times.

Lectures: 2 hours.

Professors Henderson and Miller

Conference groups: 1 hour.

Professor McKinnon; Mr. Gombay,

Mr. McCall and Mr. Ross

Reading: Socratic Dialogues (Nelson); Descartes (Nelson); Hume (Nelson); Russell, Problems of Philosophy (Galaxy).

300. ETHICS. Second or Third year (Full course).

The main types of ethical theory.

Lectures and conferences: 3 hours.

Professor McKinnon

Reading: Plato, Republic; Hobbes, Leviathan; Butler, Fifteen Sermons; Kant, Fundamental Principles of the Metaphysics of Morals; Mill, Utilitarianism.

310. LOGIC AND SCIENTIFIC METHOD (Full course).

Deductive logic: introduction to modern symbolic logic with emphasis upon applications. Inductive logic and scientific method: verification, probability, hypothesis, and related topics.

3 hours.

Professor Miller, Mr. McCall, Mr. Ross and Mr. Gombay

Textbook: Miller, Syllabus of Introductory Logic, and Logic Workbook.

Prerequisite: Philosophy 200, except for Third and Fourth year students of science.

The class will be divided into two sections, designated as 310 I and

310 II.

320. AESTHETICS (Full course). A philosophical treatment of certain problems in the spheres of art and criticism. Among the subjects discussed will be: the nature of aesthetic experience and of the artistic object; the interpretation of a work of art; artistic form; the criteria of aesthetic value. Illustrations and examples will be drawn from a variety of arts, including music and poetry.

3 hours.

Mr. McCall and Mr. Ross

Prerequisite: At least one full course in philosophy. With the consent of the lecturers, certain students may be permitted to take this course without this requirement being fulfilled.

Reading: R. G. Collingwood, The Principles of Art; Monroe Beardsley, Aesthetics: Problems in the Philosophy of Criticism.

330. PHILOSOPHY OF RELIGION (Full course). A discussion of the main problems of the philosophy of religion as considered in the works of various philosophers.

3 hours.

Professor McKinnon

Reading: Anselm, *Monologium* and *Proslogium* (Open Court); Aquinas, *Selected Writings* (Everyman's Library); Pascal, *Pensées* (Everyman's Library); Hume, *Dialogues Concerning Natural Religion* (Nelson); Kant, *Selections* (Scribner's); Kierkegaard, *Philosophical Fragments* (Princeton); Bergson, *Two Sources of Morality and Religion* (Doubleday).

Prerequisite: Philosophy 200.

340. PHILOSOPHY OF HISTORY (Full course). An investigation into the nature, and the philosophical significance, of historical knowledge, pursued via readings in the works of Dilthey, Croce, Collingwood, Ortega y Gasset, Toynbee, and some other contemporary authors.

3 hours.

Professor Currie

Prerequisite: Philosophy 200.

HISTORICAL

350. GREEK PHILOSOPHY. Third and Fourth years (Full course). The theory of knowledge and metaphysics of Plato and Aristotle, with special reference to Plato's *Phaedrus*, *Ion*, *Symposium*, *Republic* (Books V-VII) *Theaetetus*, and *Timaeus*; and Aristotle's *Physics*, *Metaphysics*, *De Anima*, and *Poetics*.

3 hours.

Professor Henderson

Prerequisite: Philosophy 200 or 300, except for students in Honours courses in Greek.

Reading: *The Dialogues of Plato* (Random House); *Introduction to Aristotle* (Modern Library).

360. MODERN PHILOSOPHY (Full course). Epistemology and Metaphysics: the main modern discussions.

3 hours.

Professor Currie

Reading: Locke, *Essay Concerning Human Understanding*; Hume, *A Treatise of Human Nature*; Kant, *Prolegomena to Any Future Metaphysics*; Hegel, *Introduction to the Philosophy of History*; Bergson, *Introduction to Metaphysics*; Whitehead, *The Function of Reason*.

Prerequisite: Philosophy 200.

370. MEDIAEVAL AND RENAISSANCE PHILOSOPHY (Full course). Main problems of mediaeval philosophy in their development from Plotinus and St. Augustine to the Fifteenth Century, with special reference to Boethius.

Scotus Eriugena, Anselm, Abailard, the School of Chartres, St. Thomas, Master Eckhart, Duns Scotus, William of Ockham, Nicholas of Cues, Marsilio Ficino, and Pico della Mirandola.

Reading: St. Augustine, *Confessions* and *City of God* (Everyman's Library, London 1945); Boethius, *The Consolation of Philosophy* (Garnier); selections from *Mediaeval Philosophers*, vols. I-II (Modern Student's Library, Scribner's).

3 hours.

Professor Klibansky

Prerequisite: Philosophy 200; or consent of lecturer.

SYSTEMATIC AND ADVANCED COURSES

400. ETHICS AND PHILOSOPHY OF POLITICS (Full course).

Reading:

First term. Aristotle, *Nicomachean Ethics*; Moore, *Principia Ethica*; Stevenson, *Ethics and Language*.

Second term. Selections from the following: Plato, *Crito*, *Gorgias*, *Republic*, *Statesman*; Aristotle, *Politics*; Thomas Aquinas, *Summa Theologica* and *Summa contra Gentiles*; Locke, *The Second Treatise of Civil Government*, and *A Letter on Toleration* (Oxford 1946); Kant, *Perpetual Peace*; Hegel, *Philosophy of History* (Scribner's) and *Philosophy of Right* (Oxford 1942); Mill, *On Liberty* and *Considerations on Representative Government* (Oxford 1946); M. Oakeshott, *The Social and Political Doctrines of Contemporary Europe* (Cambridge 1944).

3 hours.

Professors Klibansky

Prerequisite: Philosophy 300. Honours students from other departments may be admitted with the consent of the lecturers.

410. PROBLEMS OF LOGIC, EPISTEMOLOGY, AND METAPHYSICS (Full course).

First term. C. I. Lewis' epistemology, with some consideration of his logical theory. An examination of fundamental problems of logic, theory of knowledge, and metaphysics will be made on the basis of selected readings from the works of Kant, Husserl, Cassirer, as well as of Russell and some other contemporary authors.

Second term. The philosophy of Whitehead.

3 hours.

Professors Miller and Henderson

Prerequisites: Philosophy 200, 310 or 350 or 360.

420. SEMINAR ON THE PHILOSOPHY OF KANT (Full course).

3 hours.

Professor Currie

1960-61: Kant's Theory of Morals, Religion, and Politics.

Reading: *The Critique of Practical Reason*; *The Critique of Judgement*.

Prerequisite: Philosophy 360. (1961-62: Kant's Theory of Knowledge.)

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440. SEMINAR ON PHILOSOPHY (Full course).

Subject for 1960-61: Issues in Contemporary Philosophy.

3 hours.

The Staff

Reading: to be announced.

Prerequisites: Open to Fourth year Honours and Graduate students; or may be taken with special consent of the lecturers.

HONOURS COURSES

Full Honours students will take at least the following courses:

Second year: Philosophy 200, (300).

Third year: Philosophy 300, 310, 350 and 360.

Fourth year: Philosophy 400, 410 and 420.

Full Honours students are advised to take Philosophy 200 and 300 in the Second year.

At the conclusion of the Fourth year, there is a comprehensive examination on the total work done in the field of Philosophy, which will take the place of examinations in the courses of that year. For Full Honours students the examination will consist of three papers; one in the history of philosophy, one in ethics, and one in systematic philosophy (logic, epistemology, and metaphysics). Students pursuing a Joint Honours course will take two of the papers, the selection being made in accordance with the combined subject-matter of their course of study. The examination will presume a knowledge of the major classical works in each of these fields, some of which may not be dealt with in any lecture course or seminar.

JOINT HONOURS

The following courses in Joint Honours may be taken:

Economics and Philosophy (see under Department of Economics and Political Science)

English and Philosophy (see under Department of English).

French and Philosophy (see under Department of Romance Languages).

German and Philosophy (see under Department of German).

Greek and Philosophy (see under Department of Classics).

History and Philosophy (see under Department of History).

Latin and Philosophy (see under Department of Classics).

Mathematics and Philosophy (see under Department of Mathematics).

Philosophy and Political Science.

- 2nd year:* Philosophy 200 and 300, Political Science 211H, Economics 211H (*Note:* Philosophy 300 may be taken in the Third year if desired).
- 3rd year:* Philosophy 350 or 360, Political Science 311.
- 4th year:* Philosophy 350 and 360 (whichever not taken before), Philosophy 400, Political Science 351 and 411.

At the end of the Fourth year, students taking Joint Honours in Philosophy and Political Science will write a Final Honours Comprehensive Examination consisting of the following papers:

Ethics and Political Philosophy,
The History of Philosophy,
Major Paper in Political Science,
Special Subject in Political Science.

CONTINUATION COURSES

Students interested in studying Philosophy in conjunction with other subjects are advised to take their selected courses in Philosophy in the sequences indicated below in connection with the other studies.

1. Philosophy with one or more studies in the social sciences, e.g., economics, history, politics, psychology, and sociology:
Philosophy 200, 300, 310, 330, 350, 370, 400.
2. Philosophy, with one or more studies in the natural sciences, e.g., biochemistry, botany, chemistry, genetics, physics, zoology:
Philosophy 200, 310, 360, 410.
3. Philosophy with studies in English or Foreign Literature:
Philosophy 200, 300, 320, 330, 350, 360, 370.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research

PHYSICS

Professors

G. A. WOONTON, *Chairman*
R. E. BELL
J. S. FOSTER
J. S. MARSHALL
E. R. POUNDER

ARTS AND SCIENCE

Associate Professors

K. L. S. GUNN
W. F. HITSCHFELD
W. M. MARTIN
ANNA I. MCPHERSON
F. R. TERROUX

Assistant Professors

J. A. CARRUTHERS
C. R. CROWELL
M. P. LANGLEBEN
J. F. MATHISON
E. J. STANSBURY
R. STEVENSON

Lecturers

M. L. DE ANGELIS
W. M. TELFORD

Senior Demonstrators

V. M. FORBES
E. V. HARKNESS
G. KATONA
F. H. WEBB

FIRST YEAR COURSES*

11. GENERAL COURSE (Full course). A general course covering the elementary portions of mechanics, sound, heat, magnetism, electricity, light, and atomic physics. Simple applications of fundamental principles to well known phenomena are explained with the aid of demonstrations, laboratory work, and numerical examples.

3 hours.

Professors Gunn and Hitschfeld and Dr. Marr

Laboratory (11L): 2 hours

Professor McPherson and Demonstrators

Texts: Smith and Cooper, Elements of Physics (McGraw-Hill); An Elementary College Course in Experimental Physics (Renoul).

111. MECHANICS AND ELECTRICITY (Fac.Eng.1311) (Full course).** An introductory course covering the elementary portions of mechanics, magnetism, electricity, and atomic physics. Simple applications of fundamental principles to well known phenomena are explained with the aid of demonstrations, laboratory work, and numerical examples.

3 lectures per week, session.†

Professors Martin and Mathison

Laboratory, 2 hours per week, session.

Professor McPherson

*These courses may be taken in the Second or Third years by B.A. or B.Com. students provided that their timetables permit.

**Physics 111 along with Physics 22a and Physics 22b constitute a two-year survey course. Physics 111 is intended to be taken only by students who plan no further courses in Physics after Physics 22a and 22b. All other first year students should register for Physics 11.

†Voluntary tutorials are provided to assist students in 111.

Texts: Marshall & Pounder, *Physics* (Macmillan); *An Elementary College Course in Experimental Physics* (Renouf Publishing Co.)

SECOND YEAR COURSES†

- 22a. HEAT (Fac. Eng. 1320) (Half course). Temperature, kinetic theory, heat engines, throttling, evaporation, hygrometry, heat transfer, radiation, and expansion.

First term: 3 hours.

Professors Marshall, Stansbury, McPherson and Dr. Langleben

Laboratory (22aL): 2 hours.

Professors Terroux and McPherson and Demonstrators

Prerequisite: Physics 11 or 111.

Texts: Marshall & Pounder, *Physics* (Macmillan), *Heat, Light and Sound Laboratory Manual* (Renouf).

- 22b. SOUND AND LIGHT (Fac. Eng. 1322) (Half course). Simple harmonic motion, waves, interference, moving sources, diffraction, vibrating systems, intensity level, audibility, musical scales, and acoustics. Waves and rays, lenses and mirrors, aberrations, the eye, optical apparatus, illumination, interference, polarized light. The wave theory developed in sound is used for light.

Second term: 3 hours.

Professors Marshall, Stansbury, McPherson and Dr. Langleben

Laboratory (22bL): 2 hours.

Professors Terroux and McPherson and Demonstrators

Prerequisite: Physics 11 or 111.

Texts: Marshall and Pounder, *Physics* (Macmillan); *Heat, Light and Sound Laboratory Manual* (Renouf).

23. ELECTRICITY AND MAGNETISM (Fac. Eng. 1340, 1344) (Full course). The fundamentals of magnetism, electrostatics, current electricity, electromagnetic induction, electrodynamics, theory of simple circuits, elementary electronics. Demonstrations, applications, and numerical examples are emphasized. The laboratory course is essential and complementary to the lectures, illustrating main principles and providing

†Courses 22, 23, 24 or 25 may be taken by B.A. or B.Sc. students (general course) in their Third year provided that their timetables permit. Courses 23, 24, or 25 may be taken by B.A. students in their Fourth year provided that their timetables permit.

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a thorough introduction to the theory and use of common electrical apparatus.

3 hours.

Professors Woonton, Bell and Stansbury

Laboratory (23L) 3 hours.

Professor Pounder and Demonstrators

Prerequisite: Physics 11. Mathematics 224 or 225 to be taken concurrently.

Text: Sears, *Electricity and Magnetism* (Addison-Wesley).

23X. ELECTRICITY AND MAGNETISM (Half course). Same as course 23 without laboratory work.

3 hours.

Professor Woonton

24. DYNAMICS (Half course). Kinematics, vectors, motion under gravity, laws of motion, applications, impulse, work and energy in linear motion and rotation, projectiles, collision of elastic bodies, normal accelerations, simple harmonic motion, wave motion, pendulum, moments of inertia. Students are required to work a large number of problems.

First term: 1 hour. Second term: 2 hours.

Professor Terroux

Prerequisite: Physics 11. A course in Calculus should be taken concurrently.

Text: Humphrey, *Intermediate Mechanics, Dynamics* (Longmans).

25. STATICS AND HYDROSTATICS (Half course). Statics of particles and rigid bodies acted on by forces in one plane, centre of gravity, friction, funicular polygon, virtual work. Fluid pressure, specific gravity, centre of pressure. Hooke's law and elements of elasticity, bending of beams and struts. Solutions of numerous problems by graphical and analytical methods required.

First term: 2 hours, Second term: 1 hour.

Professor Stevenson

Prerequisite: Physics 11. A course in Calculus should be taken concurrently.

Text: Short, *Elementary Statics* (Oxford University Press).

27b. ASTROPHYSICS. (Half course). Elementary review of the determination of the positions, sizes, motions and temperatures of the stars. Spectroscopy as applied to the problems of astrophysics. Practice measurements and analysis of typical stellar spectrograms.

Second term: 2 hours, laboratory (27L): 2 hours. *Professor McPherson*

Prerequisite: Physics 11.

Reference books: Russel, Dugan and Stewart, *Vols. I, II, Astronomy* (Ginn); Baker, *Astronomy* (Van Nostrand).

THIRD YEAR COURSES*

31. MECHANICS (Mathematics 331.) (Fac. Eng. 1368) (Full course).

(a) Two dimensional mechanics of a particle, systems of particles and of rigid bodies; chains and cables; mass systems; dissipative forces; forced and damped oscillations; normal modes of vibration of simple systems; central orbits under attractive and repulsive forces with applications.

First term: 3 hours.

Professor Terroux

Texts: Lamb, *Statics* (C.U.P.); Lamb, *Dynamics* (C.U.P.).

Reference books: Synge and Griffith, *Principles of Mechanics* (McGraw-Hill); Slater and Frank, *Mechanics* (McGraw-Hill). Lindsay, *Physical Mechanics* (Van Nostrand).

(b) Central orbits and scattering problems. Lagrangian and Hamiltonian equations. Rotations. Motion of rigid bodies, principal axes and moments of inertia. Normal modes of vibration and characteristic frequencies of oscillating systems, with applications to atomic and molecular physics.

Second term: 3 hours.

Professor E. L. Lomon (Mathematics)

Text: Slater and Frank, *Mechanics* (McGraw-Hill).

Reference books: Goldstein, *Classical Mechanics* (Addison Wesley); Corben and Stehle, *Mechanics* (Wiley).

Prerequisite to both parts: Physics 24, 25; Mathematics 225.

32. PROPERTIES OF MATTER (Fac. Eng. 1366) (Half course). The standard properties of matter—elasticity, gravitation, surface tension and viscosity—are studied in both lectures and laboratory. A few lectures are devoted to errors in measurement and their treatment.

1 hour; laboratory (32L): 3 hours.

Professor Gunn

Prerequisite: Physics 11, 24, 25; Mathematics 224 or 225.

Reference books: Smith, *General Properties of Matter* (Arnold); Newman and Searle, *General Properties of Matter* (Benn); Beers, *Introduction to the Theory of Error* (Addison-Wesley).

*Courses 31 to 35 may be taken by qualified general course students in the fourth year, if timetable permits. General course students of the Third and Fourth years may attend courses 31, 33, or 34, *only* if they have obtained at least second class standing in the respective prerequisites to these courses.

ARTS AND SCIENCE

33. ELECTRONICS CIRCUITS AND INSTRUMENTS (Half course). Theory and application of electronic devices with emphasis on the instruments used in scientific research.

1 hour; Laboratory (33L), 2 hours.

Professor Crowell

Prerequisite: Physics 23.

Reference Books: Terman, *Electronic and Radio Engineering*, 4th Ed. (McGraw-Hill); Cruft Laboratory Staff, *Electronic Circuits and Tubes* (McGraw-Hill); Valley and Wallman, *Vacuum Tube Amplifiers* (McGraw-Hill); Chance et al., *Waveforms* (McGraw-Hill).

34. HEAT AND THERMODYNAMICS (Fac. Eng. 1342) (Full course). Thermodynamic systems and variables. The zeroth, first and second laws. The thermodynamics of: heat engines; two-phase systems, including a statement of the third law; thermoelectricity; Joule-Thomson effect; thermionic emission; thermal radiation. Kinetic theory of gases, introduction to statistical mechanics.

2 hours.

Professor Stansbury

Prerequisites: Physics 22a and Mathematics 224 or 225.

Text: Sears, *Introduction to Heat, Thermodynamics, Kinetic Theory and Statistical Mechanics* (Addison-Wesley)

Reference books: Zemansky, *Heat and Thermodynamics* (McGraw-Hill); Hoare, *Textbook of Thermodynamics* (Longmans Green); Sir James Jeans, *Kinetic Theory of Gases* (C.U.P.); Worthing and Halliday, *Heat* (Wiley).

35. INTRODUCTORY ATOMIC PHYSICS (Fac. Eng. 1362) (Full course). Conduction of electricity through gases. Production and properties of free electrons. Atomic structure, elementary quantum theory. X-radiation. Ion optics, optical and mass spectroscopy. Elementary solid state theory.

2 hours.

Professor Pounder

Prerequisite: Physics 23, Mathematics 224 or 225.

Text: Wehr and Richards, *Physics of the Atom* (Addison-Wesley).

Reference books: Stranathan, *The Particles of Modern Physics* (Blakiston); Millman and Seely, *Electronics* (McGraw-Hill); Richtmyer and Kennard, *Introduction to Modern Physics* (McGraw-Hill); Peaslee, *Elements of Atomic Physics* (Prentice-Hall).

36. ADVANCED LIGHT (Fac. Eng. 1364) (Full Course). The essentials of geometrical and physical optics with advanced laboratory work. Electromagnetic theory, interference, diffraction, polarization, simple spectrum analysis, determination of fine structure of spectral lines, Zeeman effect,

theory and use of optical apparatus (e.g., glass and quartz spectographs, Lummer plates, interferometers, and polarimeters).

First term: 2 hours. Second term: 1 hour. Laboratory (36L): 3 hours (session).

Professor McPherson

Prerequisites: Physics 11, Mathematics 224 or 225.

Reference books: Morgan, *Introduction to Geometrical and Physical Optics* (McGraw-Hill); Robertson, *Physical Optics* (Van Nostrand); Wood, *Physical Optics* (Macmillan); Jenkins and White, *Fundamentals of Optics*, (McGraw-Hill); Hardy and Perrin, *The Principles of Optics* (McGraw-Hill).

FOURTH YEAR COURSES

40. MODERN PHYSICS LABORATORY (Full course). Techniques of modern physics, e.g: vacuum systems and vacuum measurements. Determination of electronic charge and ratio e/m of charge to mass. Selected topics in modern physics are studied by laboratory measurements, e.g: X-ray absorption, paramagnetic susceptibility. The properties of solids. The study of radiations from radioactive elements.

3 hours.

Professors Martin and Terroux and Dr. Telford

Prerequisites: Physics 23, 31, 35; Mathematics 333, 334.

41. MATHEMATICAL PHYSICS (Mathematics 441) (Fac. Eng. 1390) (Full course). Vibration problems, eigenfunctions and eigenvalues, sound waves, scattering problems. Fourier transforms and application to problems of heat heat conduction and diffusion. Introduction to statistical mechanics and wave mechanics.

3 hours.

Professor R. T. Sharpe (Mathematics)

Prerequisite: Mathematics 333.

Reference books: Margenau and Murphy, *The Mathematics of Physics and Chemistry* (McGraw-Hill); Coulson, *Waves* (Oliver and Boyd); Lindsay, *Concepts and Methods of Theoretical Physics* (Van Nostrand); Joos, *Theoretical Physics* (Blackie); Sommerfeld, *Partial Differential Equations* (Academic Press); Born, *Atomic Physics* (Blackie); Menzel, *Mathematical Physics* (Prentice-Hall).

42. ELECTROMAGNETIC THEORY (Fac. Eng. 1388) (Half course). General properties of a vector field; the electrostatic field in a vacuum and in material media; currents and their interactions; Maxwell's equations for stationary and moving media; energy, force and momentum in electromagnetic field; plane waves; the inhomogeneous wave equation; advanced and retarded potentials; the Lienard-Wiechert potentials;

the field of a moving electron; radiation from an accelerated charge; difficulties in classical electron theory.

First term: 2 hours; Second term: 1 hour. *Professor Stevenson*

Prerequisites: Physics 23 and Mathematics 333, 334.

Reference books: Slater and Frank, *Electromagnetism* (McGraw-Hill); Stratton, *Electromagnetic Theory* (McGraw-Hill); Ramo and Whinnery, *Fields and Waves in Modern Radio* (Wiley); Panofsky and Phillips, *Classical Electricity and Magnetism* (Addison-Wesley); Lorentz, *The Theory of the Electron* (Dover).

43b. ATOMIC AND MOLECULAR STRUCTURE (Fac. Eng. 1382) (Half course).

A concise and connected description of selected topics including recent investigations. Spectra and structure of one electron system; helium; multiplet structure and electron-spin; energy levels according to Dirac; Pauli principle and periodic classification; Zeeman and Stark effects; Lamb-Retherford experiment; hyperfine structure in hydrogen and radio-astronomy; molecular spectra and structure; calculation of ionization potentials; energy level shifts; simple molecular structures; nuclear spins and quadrupole moments.

Second term: 2 hours. *Professor Mathison*

Laboratory, see Physics 40.

Prerequisite: Physics 35.

Reference books: Herzberg, *Atomic Spectra and Atomic Structure* (Dover); White, *Introduction to Atomic Spectra* (McGraw-Hill); Series, *Spectrum of Atomic Hydrogen* (O.U.P.); Herzberg, *Molecular Spectra and Molecular Structure*. vol. 1 and 2 (Van Nostrand); Leighton, *Principles of Modern Physics* (McGraw-Hill).

44a. RADIOACTIVITY AND INTRODUCTORY NUCLEAR PHYSICS (Fac. Eng. 1392a)

(Half course). The phenomena of radioactive disintegration and the laws of transformation of successive products; nature and properties of radiations; methods of detection and measurement; mechanisms of absorption and scattering; neutrons, positrons and the constitution of nuclei; artificial disintegration processes; fission and fusion.

First term: 2 hours. *Professor Terroux*

Laboratory, see Physics 40.

Prerequisite: Physics 35.

Reference books: Rutherford, Chadwick and Ellis, *Radiations from Radioactive Substances* (C.U.P.); Cork, *Radioactivity and Nuclear Physics* (Van Nostrand); Lapp and Andrews, *Nuclear Radiation Physics* (Prentice-Hall); Semat, *Introduction to Atomic and Nuclear Physics* (Rinehart); Kaplan, *Nuclear Physics* (Addison-Wesley).

- 44b. PARTICLES AND QUANTA OF MODERN PHYSICS (Fac. Eng. 1392b) (Half course). X-rays and γ -rays; sources, detection, wave-length and energy measurements; optical properties, X-ray spectra and atomic energy levels; bremsstrahlung, absorption and scattering; high energy physics; cosmic rays, behaviour of very high energy particles and photons; experimental methods; the elementary particles; high energy accelerators.

Second term: 2 hours.

Professor Martin

Laboratory, see Physics 40.

Note: Either half of this course, 44a or 44b may be taken by qualified students as a half course.

Prerequisite: Physics 35.

Reference books: Leighton, *Principles of Modern Physics* (McGraw-Hill); Peaslee, *Elements of Atomic Physics* (Prentice-Hall); Blackwood, Osgood and Ruark, *An Outline of Atomic Physics* (Wiley); White, *Introduction to Atomic Spectra* (McGraw-Hill); Evans, *The Atomic Nucleus* (McGraw-Hill).

45. WAVE MOTION AND QUANTUM PHYSICS (Full course). Vibrating strings and eigenvalue problems. Expansions in eigenfunctions. Wave equations in three dimensions, sound waves, scattering problems, scattering cross-sections. Potential problems, spherical harmonics. Formulations of quantum mechanics, operator representations, Heisenberg principle. One-dimensional problems, rectangular potential functions, alpha-decay, harmonic oscillator. Three-dimensional potential well, hydrogen atom. Perturbation theory. Electron spin.

3 hours.

Professor Pounder

Prerequisites: Physics 31, 35; Mathematics 333, 334.

(Not given in 1960-61.)

- 46b. SOLID STATE PHYSICS (Half course). Waves in crystal lattices. The Bravais Lattice, Von Laue's treatment of X-ray diffraction, Bragg reflections, the reciprocal lattice, wave vectors, boundary conditions and Brillouin Zones. These ideas are applied to a study of lattice vibrations, leading to a discussion of specific heats of solids. The theory of electrical conduction in solids is sketched starting with the ideas of Lorentz, through Sommerfeld to the modern concepts of energy bands in solids.

Second term: 2 hours.

Professor Woonton

Prerequisites: Physics 23, 31, 35; Mathematics 333, 334.

(Not given in 1960-61.)

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- 47a. APPLIED GEOPHYSICS. (Fac. Eng. 1360.) (Half course.) An introduction to geophysical methods of prospecting and of investigating sub-surface structure. The theories, the uses, and the limitations of various magnetic, electrical, gravitational, and seismic methods are explained and compared. The practical operation of the instruments is reviewed, and actual field results are obtained and analysed. When possible, students will be given some practical experience in the field. Laboratory facilities are available.

First term: 2 hours.

Dr. Telford

Prerequisite: Physics 23.

Text: Eve and Keys, *Applied Geophysics*, 4th ed. (Cambridge Univ. Press) Dobrin, *Introduction to Geophysical Prospecting* (McGraw-Hill).

Reference books: Heiland, *Geophysical Exploration* (Prentice-Hall); Jakosky, *Exploration Geophysics* (Trija Publishing Company).

48. ELECTRICAL MEASUREMENTS (Half course). A. C. networks, and circuit theorems; dipole antenna theory; the theory and application of transmission lines including use of the Smith chart; the theory and application of wave-guides, including cavity-resonators; theoretical and practical aspects of noise, including Johnson noise, shot noise and performance of amplifier systems.

First term: 1 hour. Second term: 2 hours.

Professor Carruthers

Laboratory: see Physics 49.

Prerequisites: Physics 23, 33, Mathematics 332 or 333.

Text: Scott, *The Physics of Electricity and Magnetism* (Wiley).

Reference books: Law, *Electrical Measurements* (McGraw-Hill); Hague, *Alternating Current Bridge Methods* (Pitman); Harnwell, *Principles of Electricity and Electromagnetism* (McGraw-Hill); Campbell and Chilton, *The Measurement of Inductance, Capacitance, and Frequency* (Macmillan).

49. ADVANCED PHYSICS LABORATORY (Full course). Impedance measurements from audio frequencies to centimetre wavelengths; dielectric dispersion; magnetic measurements with application to the Hall effect and nuclear magnetic resonance; thermionic emission, selected topics in thermodynamics.

3 hours.

Professor Carruthers

Prerequisites: Physics 23, 33; Mathematics 332 or 333.

Text: Michels, *Electrical Measurements and their Application* (Van Nostrand).

HONOURS COURSES

Note: Students entering First year who are contemplating any of the Honours Courses in Physics are advised to consult the Physics Department. Such students are recommended to take Physics 22 instead of Physics 11, *provided* they obtain the approval of the Department before registering.

HONOURS COURSES IN PHYSICS

Prerequisite: High standing in First year Mathematics, Physics 11 or 22 (*See Note above*).

Second year: Mathematics 225, 226, 227; Physics 23, 24, 25.

Third year: Mathematics 333, 334, Physics, 31, 33, 35, 36 and either Physics 32 or Mathematics 345a.

Note: Students proposing to enter the Fourth year of the Honours Physics course must take Physics 32.

Fourth year: Mathematics 452a; Physics 34, 40, 42, 43b, 44, 45, 46b, 48, 49.

JOINT HONOURS COURSES

Biophysics: See under Department of Physiology.

Chemistry and Physics: See under Department of Chemistry.

(*Not offered in 1960-1961.*)

Geology and Physics: See under Department of Geological Sciences.

Mathematics and Physics: See under Department of Mathematics.

Physics and Physiology:

Prerequisite: High standing in First year Courses.

Note: Students entering First year who contemplate taking this Honours Course should consult the Physics and the Physiology Departments concerning the choice of courses in First year. Botany/Zoology 100 should be taken in the First year; otherwise it must be taken as an *extra* course in the Second year.

Second year: Mathematics 225, 226, 227; Physics 23, 24, 25.

Third year: Chemistry 22; Mathematics 333, 334; Physics 31, 33; Physiology 21.

Fourth year: Biochemistry 31; Physics 34, 35, 36; Physiology 31, 32.

Fifth year: Physics 42, 43b, 44, 45, 48, 49; Physiology 41, 42.

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CONTINUATION COURSES

Second year: Physics 22 or other courses as listed for the Third year, below, by special permission.

Third year: Physics 23, 24, 25, 27b or other courses by departmental permission.

Fourth year: Physics (32, 35), (44a, 44b, 43b), (35, 47), (35, 44b) or other courses by departmental permission.

Students selecting Physics as a Continuation Subject must also select Mathematics 224 or 225, and later (337a, 337b).

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

PHYSIOLOGY

Professors

F. C. MACINTOSH, *Chairman*

A. S. V. BURGEN

B. D. BURNS

Assistant Professors

R. I. BIRKS

SIMON DWORKIN

BERNICE GRAFSTEIN

PAUL SEKELJ

KATHLEEN G. TERROUX

Lecturers

C. M. MCBRIDE

CARL PINSKY

E. J. REININGER

O. M. SOLANDT

Sessional Lecturer

HYMAN WEINER

21. INTRODUCTORY PHYSIOLOGY (Full course). For students in the Faculty of Arts and Science, the School of Physical and Occupational Therapy, and the School for Graduate Nurses. The emphasis in this course will be on the physiology of man.

First term: 3 hours; Second term: 2 hours and 3 hours laboratory.

Professor Terroux

Prerequisites: Physics 11, Chemistry 11, Botany 100 (a or b) with Zoology 100 (a or b), Chemistry 22a, and Zoology 221. The last two courses may be taken concurrently with Physiology 21.

Texts: Bell, Davidson and Scarborough, *Textbook of Physiology and Biochemistry*, or Winton and Bayliss, *Human Physiology*.

31. INTERMEDIATE PHYSIOLOGY (Full course). A systematic account of body functions, with considerable emphasis on cellular physiology and biophysics.
3 hours. *Professor Grafstein*
Prerequisites: Physiology 21, Biochemistry 31. Biochemistry 31 may be taken concurrently.
32. EXPERIMENTAL PHYSIOLOGY (Full course). Lectures, seminars and laboratory work at the intermediate level. This is a companion course to Physiology 31.
2 hours and 3 hours laboratory. *Professor Grafstein*
Prerequisite: Physiology 31, which may be taken concurrently.
33. PHYSIOLOGICAL LABORATORY (Half course extending over both terms). For Biochemistry Honours students only.
1 hour and 3 hours laboratory. *Professor Grafstein*
Prerequisite: Physiology 31.
41. ADVANCED GENERAL PHYSIOLOGY (Full course). The action of drugs on tissues; cell structure, permeability, and ion transport; secretory mechanisms.
First term: 3 hours, 8 hours laboratory, and seminar. *Staff*
Prerequisite: Physiology 31.
42. ADVANCED MAMMALIAN PHYSIOLOGY (Full course). Circulation, respiration, properties of excitable tissues, nervous system.
Second term: 3 hours, 8 hours laboratory, and seminar. *Staff*
Prerequisite: Physiology 31.
43. PHYSIOLOGICAL INSTRUMENTATION (Full course). Theory and application of instruments used in physiological and medical research.
2 hours lecture and 3 hours laboratory. *Professor Sekelj*
Prerequisites: Physiology 31, Physics 23.
44. SELECTED TOPICS IN PHYSIOLOGY (Full course).
2 hours lecture, and experimental project. *Staff*
Prerequisite: Physiology 31.

HONOURS COURSE IN PHYSIOLOGY

Students are normally admitted to Honours at the beginning of the Third year, on the basis of high standing in Physiology 21 and the other prerequisite courses.

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- First year:* Physics 11, Chemistry 11, Botany 100 (a or b) and Zoology 100 (b or a).
- Second year:* Physiology 21, Zoology 221, Chemistry 22a and b, and either one or two of Chemistry 24, Physics 23, or Mathematics 224.
- Third year:* Physiology 22 and 31, Biochemistry 31, Physics 23 (if not already taken), and either one or two of Biochemistry 37, Chemistry 24, Mathematics 224, Zoology 322.
- Fourth year:* Physiology 41, 42, 43 and 44, and an additional course to be chosen in consultation with the Department.

HONOURS COURSE IN BIOPHYSICS

Students are admitted to this four-year programme at the beginning of the Second year, with the consent of the Departments of Physics and Physiology. First year students who wish to consider taking this course, or the five-year Joint Honours Course in Physics and Physiology, are advised to consult these departments before they register.

- First year:* The recommended courses are Mathematics 113; Physics 22; Chemistry 11; Botany 100 (a or b) and Zoology 100 (a or b); English 100).
- Second year:* Mathematics 225, 227; Physics 23, 24, 25; Chemistry 22; Physiology 21.
- Third year:* Mathematics 334; Physics 33; Chemistry 24; Physiology 31 and 32.
- Fourth year:* Mathematics 333; Physics 34, 44a, 48, 49; Physiology 41 and 42.

JOINT HONOURS COURSE IN PHYSIOLOGY AND PSYCHOLOGY

Students are normally admitted to this programme at the beginning of the Second year, with the consent of the two departments.

- First year:* The recommended courses are Mathematics 111; Physics 11; Chemistry 11; Botany 100 (a or b) and Zoology 100 (a or b); English 100.
- Second year:* Chemistry 22; Physiology 21; Psychology 21; and other courses to be chosen in consultation with the two departments. Psychology 22 (a or b) must be taken in either the Second or the Third year.
- Third year:* Biochemistry 31; Physiology 31, 32; Psychology 31, 34, and 22 (a or b) if not already taken.

Fourth year: Physiology 41, 42; Psychology 43, 44, 46; an elective course preferably in a biological or social science.

JOINT HONOURS COURSE IN PHYSICS AND PHYSIOLOGY: See under Department of Physics.

PSYCHOLOGY

<i>Professors</i>	E. C. WEBSTER, <i>Chairman</i> G. A. FERGUSON D. O. HEBB
<i>Associate Professors</i>	DALBIR BINDRA W. E. LAMBERT P. M. MILNER
<i>Assistant Professors</i>	M. S. RABINOVITCH MURIEL STERN
<i>Research Associate</i>	R. PRITCHARD
<i>Sessional Lecturer</i>	P. RICHARDSON

APPLIED PSYCHOLOGY CENTRE

<i>Professor</i>	E. C. WEBSTER, <i>Director</i>
<i>Associate Professor</i>	E. G. POSER
<i>Assistant Professors</i>	V. DOUGLAS
<i>Lecturer</i>	BLOSSOM WIGDOR

Students interested in applied psychology (industrial, clinical, vocational guidance, etc.) should note that the undergraduate curriculum is not sufficient to prepare them for professional work. They will need an Honours degree or its equivalent, followed by a year at least of graduate study. Such students should consult Dr. Webster in planning their undergraduate course.

21. **INTRODUCTION TO PSYCHOLOGY.** Second year. (Full course.) A biologically oriented outline of the modern approach to psychology. 2 hours and one weekly conference. *Professors Hebb and Stern*

Prerequisite to all further courses in Psychology except Course 22.

- 22a or b. **PSYCHOLOGICAL STATISTICS.** Second or Third year. (Half course.) The statistical analysis of psychological data; frequency distributions; graphic representation; measures of central tendency and variability;

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elementary probability theory; the normal probability curve; simple correlation methods; elementary sampling theory and tests of significance.

First and second terms: 3 hours.

Professor Ferguson

31. EXPERIMENTAL PSYCHOLOGY. Third or Fourth year (Full course). Introduction to laboratory instruments and procedures in which the student will investigate established phenomena of perception and learning. The student will be required to carry out an experimental project in some field of psychological investigation.

1 hour lecture, 4 hours laboratory.

Professor Lambert

Required of all Third year Honours students; open to general students only with the instructor's consent.

32. PERCEPTION AND LEARNING. Third or Fourth year (Full course). Analysis of phenomena such as discrimination, perceptual constancy, perception of distance and movement, social perception, learning and forgetting, transfer of training, problem solving and insight; consideration of the nature of the perceptual learning, and thinking processes.

3 hours.

Professor ———

33. DEVELOPMENTAL PSYCHOLOGY. Third year (Full course). The development of certain aspects of behaviour in animals and man with particular attention to motor and sensory development and to the evaluation of language, intelligence, emotions, and social behaviour.

3 hours.

Professor Rabinovitch

34. MOTIVATION. Third year (Full course). Analysis of emotional and motivational activities in terms of their origin and the factors determining their occurrence; the significance of arousal, blood chemistry, and sensory cues; interpretation of behavioral disorders; effect of drugs on behaviour; relevant neurological facts and theories.

3 hours.

Professor Bindra

35. PERSONALITY AND ITS SOCIAL CONTEXT. Third year (Full course). An introductory study of both personality and social psychology which treats the nature and development of personality and stresses its social determinants.

3 hours.

Professor Douglas

36. THE COMPARATIVE STUDY OF BEHAVIOUR. Third or Fourth year. (Full course.) An advanced general course, primarily for the student in biology, dealing with such topics as intelligence, motivation, and social behavior in animals, from an evolutionary point of view.

3 hours.

Professor Milner

Prerequisite: Psychology 21, and preferably a course in Zoology.

37. LABORATORY, COMPARATIVE. Third or Fourth year. (Half course.) Laboratory to accompany Course 36. 50 hours laboratory work concentrated at some time during the term, by arrangement with the instructor.

Prerequisite: Psychology 36, and consent of instructor.

Professor _____

42. SOCIAL PSYCHOLOGY. Fourth year (Full course). An integrated study of theory of social psychology; social aspects of general psychology; nature and effects of group memberships; social attitudes and motives, their measurement and modification.

3 hours.

Professor Lambert

43. MODERN PSYCHOLOGY IN HISTORICAL PERSPECTIVE. Fourth year (Full course). A survey course from a historical viewpoint of important and persisting problems in psychological thought, e.g. body-mind problem, physical bases of memory, scientific study and measurement of behaviour, intelligence, mental abnormality, etc. Contributions of Descartes, Fechner, Darwin, Pavlov, Freud, Watson and others are explored. Reading of original source material is required.

3 hours.

Professor Bindra

44. EXPERIMENTAL PROBLEMS. Fourth year and graduate (Half course.) Supervised investigation of a special field. Open to fourth year Honours students.

1½ hours in both terms.

Professor Stern

46. PHYSIOLOGICAL PSYCHOLOGY. Fourth year (Full course). The physiological basis of perception, and the relationship between the nervous system and behaviour. The effects of modern neurophysiological concepts on psychological theory are considered.

3 hours.

Professor Milner

47. INDUSTRIAL AND COUNSELLING PSYCHOLOGY. Fourth year (Full course). A critical survey of the applications of psychology to business, industry and human relations with particular reference to the empirical bases of personnel selection, training, and counselling.

3 hours.

Professor _____

48. NATURE AND MEASUREMENT OF HUMAN ABILITIES. Fourth year (Full course). An introduction to the description and theory of human ability, its correlates and the role of learning and heredity in its formation; factors producing changes in ability; sex, race and socio-economic differences. Test construction and methods of measurement.

3 hours.

Professor _____

Prerequisite: a course in statistics.

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HONOURS COURSES

Admission to Honours will normally take place at the beginning of the Third Year, and be determined by the student's standing in Psychology 21, 22a or 22b, and in related subjects. If Psychology 22a has not been taken in the Second year, this deficiency must be made up immediately.

Granting of Honours will not depend on high marks alone, nor on taking a large number of courses in psychology, but on the student's comprehension of psychological principles, knowledge of related fields, and his ability to express himself well. Honours standing will therefore be determined (a) by a comprehensive examination, (b) by a short thesis which will be judged for adequacy of presentation as well as content, and (c) by course standing.

In each of their Third and Fourth years, Honours students will normally take two and a half courses in Psychology and the balance in related fields, including Philosophy as well as the Social and Biological Sciences. For the B.Sc. student a course in Physiology is required, and the prerequisites for it should be taken in the first two years. The B.A. student may take a sequence of Social-Science courses, approved by the Department, in place of Physiology.

JOINT HONOURS

The following courses in Joint Honours may be taken:

Mathematics and Psychology (B.Sc.) (see under Department of Mathematics).

Physiology and Psychology (B.Sc.) (see under Department of Physiology).

CONTINUATION COURSES

Second year: Psychology 21, 22a or 22b.

Third year: B.A. students: Psychology 32, 33, 34, 35; B.Sc., Psychology 32, 34, 36, 37.

Fourth year: B.A. students: Psychology 42, 43, 47, 48; B.Sc., 43, 46, 48.

RELIGION

MEMBERS OF THE FACULTY OF DIVINITY

(Prospective students should consult Dean S. B. Frost, Divinity Hall.)

COURSES OFFERED AS SUBJECTS FOR THE B.A. OR B.SC. DEGREE

RELIGION 1a—BIBLICAL LITERATURE (Half course). The purpose is to give the student a critical appreciation of the literary and religious content of

the Old Testament, seen in relation to the historical circumstances of its origin in the life of Israel and Judaism. In dealing with the religious context, an attempt will be made to avoid any doctrinal or authoritative interpretations.

First term: three hours.

Professor Frost

RELIGION 1b—BIBLICAL LITERATURE (Half course). An introductory study of the New Testament designed to show the historical beginnings of Christianity in terms of its early expression. The literature will be set in the social and cultural environment of the Graeco-Roman world. The variety of its authorship and composition will be studied in order to show the structure of the Synoptic Gospels, the Pauline and other Epistles, the Johannine Gospel and Epistles. An appreciation will be given of the distinctive, cultural values of the various books.

Second term: 3 hours.

Professor Johnston

RELIGION 2—THE GROWTH AND MEANING OF CHRISTIANITY. Third or Fourth year (Full course). The purpose of this course is to present Christianity as an influence on thought and civilization in terms of its own historical development. Beginning with the life and teaching of Jesus, the more significant stages will be studied, particularly with reference to the Graeco-Roman-Judaic world in which Christianity arose, the influence of St. Augustine, the mediaeval order of life, the rise of modern thought, and the expansion of European civilization, with a discussion of the contemporary relevance of Christian ideas to thought and action.

3 hours.

Mr. Evans

Texts: The New Testament; R. W. Moore, *The Furtherance of the Gospel*; G. B. Caird, *The Truth of the Gospel*; Bettenson, *Documents of the Christian Church*.

RELIGION 3—RELIGION IN THE ORIENT. Third or Fourth year (Full course).

An introduction to the great religions of the Orient, with special emphasis on one of them. Each year there will be in the first term, after a brief reference to the religion of pre-historic man and of modern "primitive" societies, a prefatory general survey dealing synoptically with each of the main faiths. In the second term, a fuller historical study will be made of one of the Oriental religions, its teaching, institutions, and cultural achievements, with an attempt to interpret what it means to its adherents.

3 hours.

Professor W. C. Smith
Dr. Charles Adams

ROMANCE LANGUAGES

French Section

<i>Professor</i>	J. E. L. LAUNAY, <i>Chairman of the Department</i>
<i>Associate Professors</i>	HÉLÈNE LARIVIÈRE LOUIS D'HAUTESERVE MARIE-THÉRÈSE REVERCHON
<i>Assistant Professors</i>	YVONNE CHAMPIGNEUL ANDRÉ A. RIGALT TADEUSZ ROMER
<i>Lecturers</i>	NICOLE DESCHAMPS G. D. JACKSON HENRI JONES MAURICE RABOTIN

Italian Section

<i>Associate Professor</i>	ANTONIO D'ANDREA
<i>Assistant</i>	PAMELA STEWART

Spanish Section

<i>Associate Professors</i>	L. B. HARROP ROBINA E. HENRY
<i>Assistant Professors</i>	MONICA HARVEY G. F. STEGEN
<i>Lecturer</i>	ENRIQUE RUIZ-FORNELLS

FRENCH

THE DEPARTMENT OFFERS NO BEGINNERS' COURSES IN FRENCH, AND FRENCH IS THE ONLY LANGUAGE USED IN LECTURES, except in First year composition classes. Students with little knowledge of spoken French will find it necessary to do extra work to acquire some fluency in the language and sufficient aural comprehension.

The FRENCH SUMMER SCHOOL offers McGill B.A. students courses which, in certain circumstances, can be counted for credit in lieu of the regular First or Second year courses offered during the regular session. For further information regarding credit courses in the FRENCH SUMMER SCHOOL apply to the Secretary of the Department.

Both oral and written examinations are held on each year's work.

The oral examination (in both General and Honours courses) counts for 50 per cent.

Students who intend to take Honours in French in their Second year must take a course in Latin or Greek in their First year.

GENERAL COURSES—

FIRST YEAR COURSES

Students registering for First year French have a choice of two courses:

A *French 11 Advanced.*

This course is open to:

- (a) students whose first language is French,
- (b) those English-speaking students who have obtained at least 80% in their Junior School Certificate or High School Leaving Certificate or the equivalent diploma which secured their admission to the University.

All students who have registered for *French 11 Advanced* will undergo a test at the beginning of the term and those who do not satisfy the requirements will automatically revert to *French 13 Regular*.

B *French 13 Regular.*

This course is designed:

- (a) to supplement previous training in oral-aural comprehension, grammar and vocabulary so that students can proceed to further courses with an adequate linguistic equipment.
- (b) to teach the basic facts of French civilization which underlie the development of French literature and fine arts.

11. Advanced. GENERAL SURVEY OF FRENCH CIVILIZATION AND LITERATURE OF THE 18TH AND 19TH CENTURIES; French Composition (Full course).

3 hours. *Professors Champigneul, Larivière and Reverchon*

Texts: Lévêque, *Histoire de la civilisation française* (Revised edition) (Holt); Daudon, *French in Review* (Harcourt, Brace); Husson, *La cuisine des anges* (Harper); Saint-Exupéry, *Vol de Nuit* (Harper).

13. Regular. GENERAL SURVEY OF FRENCH CIVILIZATION (Geography, History, Arts, Science, Economics and Politics); Composition and Review of French Grammar.

3 hours. *Professors Champigneul, d'Hauterive, Reverchon, Rigault, Romer, Mlle Deschamps, MM. Jackson, Jones and Rabotin*

ARTS AND SCIENCE

Texts: Carlut-Brée, *France de nos jours* (Macmillan); Torrens-Sanders, *Contes de nos jours* (Copp Clark); Bond, *Hier* (Heath); Sonet-Shortliffe, *Review of Standard French* (Harcourt, Brace).

Additional reading: Dhôtel, *L'île aux oiseaux de fer* (Holt).

Students are required to possess a good French-English and English-French Dictionary. Harrap's *Shorter French-English and English-French Dictionary*, ed. by J. E. Mansion, M.A., is recommended.

SECOND YEAR COURSES

21. SURVEY OF FRENCH LITERATURE FROM THE MIDDLE-AGES TO THE 18TH CENTURY. French composition. (Full course.)

3 hours.

Professor Reverchon

Prerequisite: French 11, or permission of the Chairman of the Department.

Texts: Castex and Surer, *Manuel des Etudes littéraires françaises, Vol. 1 (Moyen-Age, XVIe et XVIIe siècles)* (Hachette); Bradley-Michell, *Eight Centuries of French literature* (Appleton-Century-Crofts); Molière, *L'Avare* (Classiques France, Hachette); Racine, *Andromaque* (Classiques France, Hachette); Whitmarsh-Jukes, *Advanced French Course* (Longmans).

23. INTRODUCTION TO FRENCH LITERATURE FROM THE MIDDLE-AGES TO THE 20TH CENTURY THROUGH THE READING OF REPRESENTATIVE MAJOR WORKS. French composition. (Full course.)

3 hours.

Professors Champigneul, d'Hauteserve, Rigault and Romer;
Mlle Deschamps, MM. Jackson and Rabotin

Prerequisite: French 13, or the equivalent.

Texts: McGill University French Staff, *Précis de littérature française* (McGill Bookstore); La Farce de Maître Pathelin; Molière, *L'Avare*; Voltaire, *Zadig* (all in Petits Classiques Larousse); Balzac, *Le Père Goriot* (Garnier); Sartre, *Les mains sales* (Livres de poche); Whitmarsh-Jukes, *Advanced French Course* (Longmans).

Readings: Molière, *Le bourgeois gentilhomme* or *Les précieuses ridicules*; Flaubert, *Trois contes* (all in Petits Classiques Larousse).

THIRD YEAR COURSES

- 31 FRENCH LITERATURE OF THE 17TH CENTURY (Full course).

3 hours.

Professor Larivière

Prerequisite: French 21 or 22 or 23.

Texts: Castex and Surer, *Manuel des Etudes littéraires françaises: XVIIe siècle* (Hachette); Peyre and Grant, *Seventeenth Century French Prose and Poetry* (Heath); Seronde and Peyre, *Nine Classic French Plays* (Heath).

Readings: Corneille, *Le Cid* and *Horace*; Racine, *Andromaque* and *Phèdre*; Molière, *L'Ecole des Femmes* and *Tartuffe*; Pascal, *Pensées*; Bossuet, *Oraison Funèbre d'Henriette d'Angleterre*; Mme de Sévigné, *Lettres choisies*; La Fontaine, *Fables choisies*; Mme de La Fayette, *La Princesse de Clèves*.

32. FRENCH LITERATURE OF THE 18TH CENTURY (Full course).

3 hours.

Professor Reverchon

Prerequisite: French 21, 22 or 23.

Texts: Castex and Surer, *Manuel des Etudes littéraires françaises: XVIIIe Siècle* (Hachette); A. Schinz, *Eighteenth Century French Readings* (Holt); Marivaux, *Le jeu de l'amour et du hasard* (Heath); Voltaire, *Candide* (Holt); Beaumarchais, *Le Barbier de Séville* (Holt).

Readings: Lesage, *Gil Blas* (Extraits); Montesquieu, *Les Lettres persanes*; Voltaire, *Les Lettres philosophiques*; Diderot, *Le Neveu de Rameau*; Beaumarchais, *Le Mariage de Figaro*; Rousseau, *Confessions* (Extraits).

FOURTH YEAR COURSES

41. MODERN FRANCE—GEOGRAPHICAL OUTLINE—POLITICAL, SOCIAL, AND ECONOMIC ASPECTS OF FRENCH LIFE, SINCE 1870 (Full course). (*Open to Third year students with permission of the Instructor.*)

3 hours

Professor Launay

N.B.—An ability to take notes in French is essential for successful completion of the course.

42. LITERATURE AND SOCIAL IDEAS IN THE 19TH CENTURY (Full course). (*Open to Third year students with permission of the Instructor.*)

3 hours.

Professor d'Hauleserve

43. FRENCH LITERATURE OF THE 19TH AND 20TH CENTURIES.

3 hours.

Dr. Jones

Prerequisite: French 31 or 32.

Texts: Penguin Book of 19th Century French verse; Musset, *Lorenzaccio* (Petits Classiques Larousse); Balzac, *Le Père Goriot* (Nelson); Flaubert, *Madame Bovary* (Garnier); Zola, *Germinal* (Livres de poche); Gide, *La Porte Etroite* (Mercure de France); Castex-Surer, *Manuel des Etudes littéraires françaises: XIXe Siècle* (Hachette).

ARTS AND SCIENCE

HONOURS COURSES

22. INTRODUCTORY HONOURS COURSE. Second year (Full course).

(a) The French comedy as illustrated by Molière, Beaumarchais, and Musset; (b) Special readings in the contemporary French novel; (c) Free composition, written and oral, on literary subjects.

3 hours.

Professor Rigault

With the consent of the Chairman of the Department this course may be taken by General students, instead of French 21.

- 44a. HISTORY OF THE FRENCH LANGUAGE. Third and Fourth years. To be taken in conjunction with French 44b.

Reference Books: Darmesteter, *Cours de Grammaire historique*. Parts I, II; F. Brunot, *Histoire de la langue française*; Holmes and Schutz, *A History of the French Language* (Farrar & Rinehart).

1 hour.

Professor d'Hautleserve

(Given in 1961-62.)

- 44b. FRENCH STYLISTICS. Third and Fourth years (Full course). Thought and Expression—intellectual and affective elements of speech with special reference to synonymy. Social and psychological background of words and phrases. Levels of speech.

2 hours.

Professor Launay

(Given in 1961-62.)

45. HISTORY OF THE FRENCH NOVEL. Third and Fourth years (Full course).

3 hours.

Professor Launay

46. HISTORY OF THE FRENCH LYRICAL POETRY. Third and Fourth years (Full course).

3 hours.

Professor Larivière

(Given in 1961-62.)

47. SURVEY OF CONTEMPORARY FRENCH LITERATURE. Third and Fourth years (Full course).

3 hours.

Professor Larivière

48. ADVANCED PHONETICS. Third and Fourth years (Half course).

2 hours.

Professor Rigault

RECOMMENDED COGNATE COURSE

50. LINGUISTICS. Open to Second and Third year students (Full course). An elementary survey of human speech, its nature, origin, structure, and

ROMANCE LANGUAGES — FRENCH

classification; principles of linguistic changes, writing, and the alphabet; universal or auxiliary languages.

3 hours.

Professor C. H. Carruthers (Department of Classics)

51. ENGLISH 370. Cross-Currents between English literature and the European literature in the 18th century.

A reading knowledge of French is a prerequisite.

3 hours.

Professor S. Klima

HONOURS COURSES IN FRENCH

Honours in French begin in Second year. Only exceptionally will students be permitted to take Honours Courses in their Third year without having previously passed French 21 or 23, and 22.

All students taking Honours in French are required to take in their Third or Fourth years French 44a, *History of the French Language*; French 44b, *French Stylistics*; and French 48, *Advanced Phonetics*.

Prerequisite: French 11 or 13.

Second year: French 21 or 23, and 22.

Third year: Three full courses (or the equivalent) including at least one full Honours Course.

Fourth year: Three full courses (or the equivalent) including at least one full Honours Course, and courses 44a, 44b, and 48 if not previously taken.

JOINT HONOURS COURSES

B.A. students may combine Honours in French with Honours in any one of the following subjects:

English
German
Latin
Philosophy
Spanish

1. Joint Honours in English and French
See under Department of English.

2. Joint Honours in French and German

First year: French 11 or 13 — German 100
(or the equivalent) (or its equivalent)
and 3 other courses

ARTS AND SCIENCE

- Second year:* 2 French courses: 21 or 23, and 22
2 German courses chosen from 210, 300, 310
1 approved course
- Third year:* 2½ French courses: 31 and 44(b) or 48 and 45 or 47
2 full German courses chosen from: 310, 320, 330, 400,
410, 420, 430
- Fourth year:* 2½ French courses: 43 and 44(b) or 48 and 45 or 47
2 full German courses chosen from: 320, 330, 400, 410,
420, 430

3. Joint Honours in French and Latin

- First year:* French 11 or 13 (or the equivalent)
Latin 100 (or the equivalent)
3 other courses
- Second year:* 2 French courses: 21 or 23, and 22
2 Latin courses: 221 and 222
1 course chosen from: History 100
Philosophy 200
Linguistics 21
- Third year:* 2 French courses: 31 and 44 or 45
2 Latin courses: 331 and 332
1 course chosen from: English 335
History 320
- Fourth year:* 2½ French courses: 43 - 44 or 45 - 48
2 Latin courses: 441 and 442

4. Joint Honours in French and Philosophy

- First year:* French 11 or 13 (or its equivalent).
4 other courses including one in Latin
- Second year:* 2 French courses: 21 or 23, and 22
2 Philosophy courses: 200 and 300
1 course chosen from: Linguistics 21
Fine Arts 201
- Third year:* 2 French courses: 31 and 44 or 47
2 Philosophy courses: 350 and 360
History 320
- Fourth year:* 2½ French courses: 43 and 44 or 47 and 48
2 Philosophy courses: 400 and 420, or 410 and 440

5. Joint Honours in French and Spanish

- First year:* French 11 or 13 (or its equivalent)
 Spanish 11 (or its equivalent)
 3 other courses, including one in Latin
- Second year:* 2 French courses: 21 or 23, and 23
 2 Spanish courses: 21 and 22
 1 course chosen from: Linguistics 21
 Philosophy 200
 History 100
- Third year:* 2 French courses: 31 or 32 and 44 or 45 or 47
 3 Spanish courses: 31, 32 or 43, 33
- Fourth year:* 2½ French courses: 41 or 43, 44 or 45 or 47, 48
 2 Spanish courses: 41 and 42

The Joint Honours programmes are not absolutely rigid and the Language Departments concerned may require a student either to take one extra course to make up for a linguistic deficiency, or to take a more advanced course than the one scheduled for his year if his fluency in any of the foreign languages concerned is better than average.

M.A. COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

ITALIAN

Two sets of courses are offered in Italian literature:

(a) *Courses given in Italian* (Courses 31 and 41): Intended for B.A. students taking Italian as a continuation subject. Italian 11 and 21 (or their equivalent) will be prerequisite for these courses.

(b) *Courses given in English* (Courses 25a and 25b): These are open to all students, and do not require a knowledge of the Italian language.

11. FIRST YEAR (Full course). Grammar, reading, oral exercises, and composition.

3 hours.

Professor D'Andrea and Miss Stewart

Texts: Roncari & Brighenti, *La Lingua Italiana insegnata agli stranieri* (Mondadori); Bormioli and Pellegrinetti, *Lecture Italiane per Stranieri*, vol. I (Mondadori); *Pinocchio* (Heath); *Il "Piccolo Orlandi"*, *Dizionario Italiano Inglese e Inglese Italiano* (Signorelli).

21. SECOND YEAR. (Full course.) Translation, free composition, conversation introduction to Italian literature.

3 hours.

Professor D'Andrea and Miss Stewart

Texts: Roncari & Brighenti, *La Lingua Italiana insegnata agli stranieri* (Mondadori); Bormioli and Pellegrinetti, *Letture Italiane per Stranieri*, vol. II (Mondadori); Pirandello, *Enrico IV, Sei Personaggi in cerca di Autore* (Mondadori); *Il "Piccolo Orlandi"*, *Dizionario Italiano Inglese e Inglese Italiano* (Signorelli).

31. THIRD YEAR—ITALIAN PROSE FROM THE ORIGINS TO OUR TIMES. (Full course.) Readings from selected Italian authors; Italian conversation, composition and elementary stylistics.

3 hours.

Professor D'Andrea

Texts: E. Donadoni, *Breve Storia della Letteratura Italiana* (Signorelli); A. Manzoni, *I Promessi Sposi* (Sansoni); A. Fogazzaro, *Piccolo Mondo Antico* (Mondadori); G. Verga, *I Malavoglia* (Mondadori); G. Morpurgo, *Le più belle Novelle Italiane*; Migliorini & Chiappelli, *Elementi di Stilistica* (Le Monnier).

41. FOURTH YEAR—CIVILIZATION AND LITERATURE OF CONTEMPORARY ITALY. (Full course.) Readings from selected Italian authors; Italian composition and stylistics.

3 hours.

Professor D'Andrea

Texts: E. Donadoni, *Breve Storia della Letteratura Italiana* (Signorelli); *The Oxford Book of Italian Verse* (The Clarendon Press); G. Tomasi di Lampedusa, *Il Gattopardo* (Feltrinelli); E. Lussu, *Marcia su Roma e dintorni* (Einaudi); C. Levi, *Cristo si è fermato a Eboli* (Einaudi); Migliorini & Chiappelli, *Elementi di Stilistica* (Le Monnier).

- 25a. ITALIAN LITERATURE: DANTE AND THE MIDDLE AGES (Half course).

Lectures will be given in English. Students are not required to take language courses as prerequisites.

First term: 3 hours.

Professor D'Andrea

Texts: *The Portable Dante* (The Viking Press); *The Inferno, The Purgatorio and The Paradiso* (Dent); E. H. Wilkins, *A History of Italian Literature* (Harvard University Press).

Reference: H. O. Taylor, *The Medieval Mind* (Macmillan); C. S. Lewis, *The Allegory of Love* (Oxford); B. Croce, *The Poetry of Dante* (Allen & Unwin); U. Cosmo, *A Handbook to Dante Studies* (Oxford).

ROMANCE LANGUAGES—SPANISH

25b. ITALIAN LITERATURE: THE RENAISSANCE AND MACHIAVELLI (Half course).

Lectures will be given in English. Students are not required to take language courses as prerequisites.

Second term: 3 hours.

Professor D'Andrea

Texts: Machiavelli, *The Prince and Other Works*, trans. by A. H. Gilbert (Farrar, Straus); E. H. Wilkins, *A History of Italian Literature* (Harvard University Press).

Reference: *The Renaissance Philosophy of Man* (Petrarca, Valla, Ficino, Vico, Pomponazzi, Vives), edited by Cassirer, Kristeller and Randall (Univ. of Chicago Press); W. K. Ferguson, *The Renaissance in Historical Thought* (Houghton Mifflin); L. Einstein, *The Italian Renaissance in England* (Columbia University Press); F. Chabod, *Machiavelli and the Renaissance* (Bowes & Bowes); M. Praz, *Machiavelli in England* (Milford).

Italian 25a and 25b may be taken separately or in combination. If taken in combination, they offer an opportunity to study such major writers as Dante, Petrarca, Boccaccio and Machiavelli. Special emphasis will be placed on the cultural contacts of England and Italy during the Middle Ages and the Renaissance.

SPANISH

Students who take Spanish in order to fulfil the Modern Language requirement for the B.A. degree must take Spanish 11 and Spanish 21 over two separate years. By the Second year, the class is conducted mainly in Spanish. All Third and Fourth year classes are conducted entirely in Spanish. Both oral and written examinations are held on each year's work.

11. FIRST YEAR (Full course). A survey of Spanish grammar. Reading and dictation. Elementary phonetics, Composition. Readings from Spanish and Spanish American authors. Conversation.

3 hours.

Professor Henry and Staff

Texts: Walsh, *Introductory Spanish* (Norton); Lentz, *A Spanish Vocabulary* (Blackie); Harrop, *Notes on Spanish Pronunciation*; José López Rubio, *La otra orilla* (Appleton-Century-Crofts); Timms, *Poco a poco* (University of London); Eoff and King, *Spanish American Short Stories* (Macmillan); Timms, *A First Spanish Reader for Adults* (University of London).

15. SPANISH (Full course). Spanish grammar and composition. Drill in aural comprehension and Spanish speech patterns, reading and dictation.

ARTS AND SCIENCE

Phonetics. A brief introduction to Spanish literature of the Golden Age. Spanish literature 1850-1898.

3 hours lectures, 3 hours practice.

Professor Harrop and Staff

Texts: Walsh, *Introductory Spanish* (Norton); Tarr and Centeno, *A Graded Spanish Review Grammar and Composition*, Sections I and III (Crofts); Timms, *Poco a poco* (U. of London); Timms, *A First Spanish Reader for Adults* (U. of London); Brady and Turk, *Classical Spanish Readings* (Appleton-Century); Marin, *La vida española* (Appleton-Century-Crofts); Pérez Galdós, *Gloria* (Appleton-Century-Crofts); Harrop, *Spanish Graded Comprehension Pieces and Notes on Spanish Pronunciation*.

NOTE: Spanish 15 is an accelerated course combining the work of the regular Spanish 11 and 21 courses. It is designed especially for, and open only to, those First year students who plan to specialize in Spanish and who wish to acquire in one year some fluency and the ability to study literature. A successful completion of this course will enable the student to enter either Spanish 22 or Spanish 31. Spanish 15 carries credit for one course only. Students who do not progress satisfactorily in the first month will, on the Instructor's recommendation, automatically revert to Spanish 11.

21. SECOND YEAR (Full course). Brief introduction to Spanish literature of the Golden Age. Spanish literature 1850-1898. Review of grammar. Free composition. Intermediate phonetics and conversation.

3 hours.

Professors Stegen and Henry

Texts: Tarr and Centeno, *A Graded Spanish Review Grammar and Composition*, Sections I and III (Crofts); Brady and Turk, *Classical Spanish Readings* (Appleton-Century); Harrop, *Notes on Spanish Pronunciation*; Diego Marín, *La vida española* (Appleton-Century-Crofts); Pérez Galdós, *Gloria* (Appleton-Century-Crofts); José Espinosa, *Colección de poemas y refranes españoles* (Thrift Press); Leavitt and Stroudemire, *Tesoro de Lecturas* (Holt).

31. THIRD YEAR (Full course). Spanish literature 1800-1898. Free and set composition. Translation. Advanced phonetics and conversation.

3 hours.

Professor Harvey

Texts: Tarr and Centeno, *A Graded Spanish Review Grammar and Composition*, Section II (Crofts); Levy, *Present-Day Spanish* (Dryden); Harrop, *Spanish Comprehension Pieces*; Foster, *Spanish Composition* (Norton); Wilkins, *An Omnibus of Modern Spanish Prose* (Odyssey); Sánchez, *Nineteenth-Century, Spanish Verse*, Sections I, II, and III (Appleton-Century-Crofts); Alarcón, *El sombrero de tres picos* (Ginn); Palacio Valdés, *Marta y María* (Austral); *Escritores costumbristas*

(Ebro); Fernán Caballero, *La gariota* (Austral); Zorilla, *Don Juan Tenorio* (Austral); Harrop, *Notes on Spanish Pronunciation*.

Reference books: Torri, *La literatura española* (Cultura Económica); Gili Gaya, *Diccionario de sinónimos* (Spes).

32. SPANISH LITERATURE. Third year (Full course). Some representative great works from 1500 to the present day.

3 hours.

Professor Harrop

Texts: Ed. by Bergua, *Las mil mejores poesías de la lengua castellana* (Biblioteca de Bolsillo); Cervantes, *Don Quijote de la Mancha* (Sopena); Tirso de Molina, *El burlador de Sevilla* (Sopena); Calderón, *El alcalde de Zalamea* (Sopena); Pérez Galdós, *Doña Perfecta* (Contemporánea); Valera, *Juanita la larga* (Sopena); García Lorca, *Bodas de sangre*; *Libro de poemas*; *La casa de Bernarda Alba* (Contemporánea); *Romancero* (Bib. Lit. del Estudiante); Anónimo, *El Lazarillo de Tormes* (Clásicos Ebro); Pereda, *Sotileza* (Sopena); Benavente, *Rosas de otoño* (Austral); Laforet, *Nada* (Áncora).

41. FOURTH YEAR (Full course). The Golden Age of Spanish literature. Twentieth century literature in Spain. Free composition. Practice in phonetic transcription. Conversation.

3 hours.

Professor Harrop

Texts: Sánchez, *Nineteenth-Century Spanish Verse*, Sections IV and V (Appleton-Century-Crofts); Levy, *Present-Day Spanish* (Dryden); Harrop, *Spanish Graded Comprehension Pieces*; Calderón, *La vida es sueño* (Sopena); Lope de Vega, *Fuenteovejuna* (Sopena); Cervantes, *Don Quijote*, Ed. by A. Malo (Ebro); M. de Maeztu, *Antología siglo XX* (Austral); Valle-Inclán, *Sonatas* (Austral); R. Pérez de Ayala, *Tigre Juan* (Austral); R. Pérez de Ayala, *El curandero de su honra* (Austral); R. Menéndez Pidal, *Flor nueva de romances viejos* (Austral); *La novela picaresca* (Bib. Lit. del Estudiante); García Lorca, *Yerma* (Contemporánea); Pío Baroja, *El mayorazgo de Labraz* (Austral); Cela, *La familia de Pascual Duarte* (Áncora); Harrop, *Notes on Spanish Pronunciation*; Cohen, *The Penguin Book of Spanish Verse* (Penguin).

Reference books: Ramsay (revised Spaulding), *A Textbook of Modern Spanish* (Holt); Gili Gaya, *Diccionario de sinónimos* (Spes); Torri, *La literatura española* (Cultura Económica).

43. SPANISH-AMERICAN LITERATURE. Fourth year (Open also to Third year students of Spanish) (Full course).

3 hours.

Professor Harrop

Texts: Torres-Ríoeco, *Antología de la literatura hispano-americana* (Crofts); Güiraldes, *Don Segundo Sombra* (Contemporánea); Ciro

ARTS AND SCIENCE

Alegría, *El mundo es ancho y ajeno* (Crofts); Gallegos, *Doña Bárbara* (Austral); Ricardo Palma, *Tradiciones peruanas* (Austral); Walsh, *Seis relatos americanos* (Norton); Teresa de la Parra; *Ifigenia* (Ed. "Las Novedades", Caracas); Reyles, *El embrujo de Sevilla* (Austral); Jorge Isaacs, *María* (Sopena); Florencio Sánchez, *Teatro*, Vol. 1 (Sopena); *Novela de la revolución mexicana* (Biblioteca Enciclopédica Popular); *Poesía latinoamericana contemporánea* (Bib. Enc. Pop.); Rivera, *La vorágine* (Zig-Zag).

Reference books: E. Anderson Imbert, *Historia de la literatura hispano-americana* (Cultura Económica); G. Torrente Ballester, *Panorama de la literatura española*, Madrid, 1956.

HONOURS COURSES

With the consent of the Department Honours Courses may be taken by general students.

22. INTRODUCTORY HONOURS COURSE. Second year (Full course).

3 hours.

Professor Harrop

- (a) The Spanish theatre since 1900.
- (b) Readings in the contemporary Spanish novel. Modern poetry.
- (c) Free composition and set translations on literary subjects.

Professor Harrop

Texts: Dufour, James and Bamber, *Español Moderno* (A. & C. Black); Benavente, *La Malquerida* and *La noche del sábado* (Austral); Benavente, *La comida de las fieras* and *Al natural* (Austral); Álvarez Quintero, *Mal valoca* and *Doña Clarines* (Austral); Martínez Sierra, *Canción de cuna* (Holt); García Lorca, *La zapatera prodigiosa* (Contemporánea); García Lorca, *Mariana Pineda* (Harrap); Casona, *Teatro* (Losada); Ed. by Cardona, *Novelistas españoles de hoy* (Norton); Zunzunegui, *Esta oscura desbandada* (Literaria); Galvarriato, *Cinco sombras* (Áncora); Delibes, *La sombra del ciprés es alargada* (Áncora); Harrop, *Spanish Graded Comprehension Pieces*; Ed. by Gerardo Diego, *Poesía española contemporánea* (1901-1934) (Taurus).

Reference book: Gili Gaya, *Diccionario de sinónimos* (Spes).

With the consent of the Department this course may be taken by general students instead of, or in addition to, Spanish 21.

33. SPANISH LITERATURE FROM ITS BEGINNINGS TO THE GOLDEN AGE—HISTORY OF THE SPANISH LANGUAGE. Third year (Full course). Professor Harvey

Texts: López Estrada, *Introducción a la literatura medieval española* (Gredos); Anónimo, *El poema del Cid* (Ebro); Don Juan Manuel, *El Conde*

Lucanor (Ebro); Ed. by González Simón, *Poesía medieval* (B.L. del E.); G. de Berceo, *Milagros de Nuestra Señora* (Ebro); Arcipreste de Hita, *Libro de buen amor* (Ebro); Fernando de Rojas, *La Celestina* (Austral); Ed. by Le Strange, *Spanish Ballads* (Cambridge); Ed. by Juliá Martínez, *Piezas teatrales cortas* (B.L. de E.); Juan de la Encina, *Plácida y Victoriano* (Ebro); Lapesa, *Historia de la lengua española* (Escelicer).

42. SPANISH DRAMA OF THE 19TH AND 20TH CENTURIES. Fourth year (Open also to Third year students of Spanish) (Full course).

3 hours.

Dr. Ruiz-Fornells

Texts: Benavente, *Los intereses creados* and *Señora ama* (Austral); Benavente, *La fuerza bruta* and *Lo cursi* (Austral); Álvarez Quintero, *Puebla de la mujeres* and *El genio alegre* (Austral); Brett, *Nineteenth Century Spanish Plays* (Appleton); García Lorca, *Doña Rosita la soltera*; García Lorca, *Bodas de sangre* (Contemporánea); Casona, *Nuestra Natachu* (Appleton-Century); Buero Vallejo, *En la ardiente oscuridad* (Alfil); Unamuno, *El otro* and *El hermano Juan* (Austral); Grau, *El burlador que no se burla, etc.* (Contemporánea); Martínez Sierra, *Canción de cuna, etc.* (Crisol); Ed. by Sáinz de Robles, *Teatro español, 1954-1955* (Aguilar); Ed. by Díaz-Plaja, *Teatro español de hoy* (Labor).

Reference book: Valbuena Prat, *Historia del teatro español* (Noguer).

JOINT HONOURS

French and Spanish: *See under Department of Romance Languages French Section*, p. 1146.

German and Spanish: *See under Department of German and Russian*, p. 1095.

Latin and Spanish: *See under Department of Classics Latin Section*, p. 1051.

SPANISH COURSES, GENERAL

Recommended Reference Books: Cuyás and Llano, *New Spanish Dictionary* (Appleton); *Pequeño Larousse Ilustrado* (Larousse); Malaret, *Diccionario de americanismos* (Emecé); Díez Mateo, *Diccionario español etimológico del siglo XX* (Academio); Navarro Tomás, *Manual de pronunciación española* (Rev. de Filología Esp.); Menéndez Pidal, *Manual de gramática histórica española* (Suárez); Ángel del Río, *Historia de la literatura española* (Dryden); Torres Ríoseco, *La literatura ibero-americana* (Ed. Emecé, B.A.); Romera-Navarro, *Historia de la literatura española* (Health); Academia Española, *Gramática de la lengua española* (Espasa-Calpe); Allison Peers, *Spain: A Companion to Spanish Studies* (Methuen); J. B. Trend, *The Civilization of Spain* (Home University); Ramsay, *A Textbook of Modern Spanish* (Holt).

SOCIOLOGY AND ANTHROPOLOGY

Associate Professor WILLIAM A. WESTLEY, Chairman

Assistant Professors *Ph.D. chi* FREDERICK ELKIN

JACOB FRIED

Ph.D. waie HOWARD ROSEBOROUGH

AILEEN D. ROSS

Ph.D. chi DAVID N. SOLOMON

Ph.D. Cornet TOSHIO YATSUSHIRO

Lecturer

Research Assistants

ROSALYND BAYLIN

WINIFRED L. BORTHWICK

SOCIOLOGY

210. INTRODUCTION TO SOCIOLOGY. Second year. (Full course.) A general introduction to sociological theory and the analysis of groups in modern society. The course covers comparative cultures, the social development of the individual, ethnic and class groupings, characteristics of urban life, social change, and institutional structures.

3 hours.

The Introductory Course is divided into lecture sections which are essentially the same. Students will indicate on their registration forms whether they are registering for 210X or 210Y.

Either Sociology 210 or Anthropology 220 is prerequisite to all other courses in Sociology or Anthropology.

210X. INTRODUCTION TO SOCIOLOGY.

Professor Ross

210Y. INTRODUCTION TO SOCIOLOGY.

Professor Westley

301. ANALYSIS OF INDUSTRIAL SOCIETIES. Third year. (Full course.) Comparative treatment of the social systems of such modern industrial societies as the United States, Soviet Russia, England, Japan, and Canada. Categories of analysis include kinship, occupation, property, stratification, the organization of authority and major values.

3 hours.

Professor Roseborough

302. MINORITY GROUPS AND THE COMMUNITY. Third year. (Full course.) The rise of modern urbanism; patterns and theories of urban growth; the participation of minority groups in urban institutions; the relation of minority groups to the class and caste structure; problems of upward

SOCIOLOGY AND ANTHROPOLOGY—SOCIOLOGY

and downward mobility; dominant group attitudes and ideologies concerning minority groups; the effect of minority group membership on the individual.

3 hours.

Professor Ross

303. THE FAMILY AND SOCIALIZATION. Third year. (Full course.) The family will be studied as a primary group and as an institution. Attention will be given to trends in family organization, reactions to family crises, and the prediction of success and failure in marriage. Socialization will be studied from the perspective of social interaction. Attention will be given to theories of socialization; agencies such as the school, peer group, and mass media; and the varying patterns in social class, ethnic, and other societal sub-divisions.

3 hours.

Professors Westley and Elkin

304. TECHNIQUES OF SOCIOLOGICAL RESEARCH. Third year. (Full course.) An introduction to the practical and theoretical problems of sociological research. Among the topics discussed are the formulation of research problems, the selection of samples, and the analysis and interpretation of data. Among the techniques are observation, interviewing, and questionnaire construction.

3 hours.

Professors Roseborough and Solomon

- 360a. CRIMINOLOGY. Third or Fourth year. (Half course.) Theories of crime; social systems and their punitive practices; types of crime in modern society; the relationships between social power, the law, and crime; the slum community; the police; political crimes.

3 hours.

Professor Westley

(Not given in 1960-61.)

401. COLLECTIVE BEHAVIOUR AND MASS COMMUNICATIONS. Fourth year. (Full course.) The nature of mass society; crowds, fashions, and other elementary forms of collective behaviour; social movements; social control, content, and influence of the press, movies, television, and other media of mass communication.

3 hours.

Professor Elkin

402. SOCIOLOGY OF WORK. Fourth year. (Full course.) Work will be considered from two points of view: (A) The professions and other specialized occupations: occupational choice and mobility; types of careers; problems of achieving conformity to occupational norms; professional and trade associations; self-involvement in an occupation. (B) Industrial and other work organizations: formal and informal organization; roles of managers,

ARTS AND SCIENCE

executives, technical specialists, foremen, and workers; the concept and dynamics of bureaucracy; industry and society.

3 hours.

Professor Solomon

403. THEORIES OF SOCIAL BEHAVIOUR. Fourth year. (Full course.) The first part of the course will focus on 19th and 20th century theories of the nature of society and the relationship between society and the individual. Special attention will be devoted to the development of systematic theory in sociology. The second part of the course will focus on sociological theories of personality with particular emphasis on the function of language and communication in social development.

3 hours.

Professors Roseborough and Westley

- 411b. SOCIAL STRATIFICATION. Fourth year. (Half course.) The theory of caste and class divisions in modern society; the structure of class groups in the United States and Canada; the criteria of rank and the symbols associated with rank; the relationship between occupation, education, and class position; problems of upward and downward mobility.

3 hours.

Professor Ross

(Not given in 1960-61.)

- 440b. POPULATION AND MIGRATION. Fourth year. (Half course.) An examination of the population composition of selected societies, regions and communities. Attention is centered on techniques of population research and on the social determinants and consequences of population distribution and change.

3 hours.

Professor Roseborough

(Not given in 1960-61.)

ANTHROPOLOGY

220. INTRODUCTION TO ANTHROPOLOGY. Second year. (Full course.) Historical relationship of race, language, and culture; culture history; analysis of cultural systems; culture and personality.

3 hours.

Professor Fried

Anthropology 220 or Sociology 210 is prerequisite to all other courses in either Anthropology or Sociology.

312. SURVEY OF PRIMITIVE AND NON-WESTERN CULTURES. Third or Fourth year. (Full course.) *First Term:* Examination and comparison of primitive cultures throughout the world with particular emphasis on their technologies and values and their familial, educational, economic, religious,

and political systems. *Second Term:* Intensive ethnographic study of the native Japanese, Hindu, and Chinese cultures in Asia, and two representative cultures from East and West Africa.

3 hours.

Professor Yatsushiro

Texts: Service, *A Profile of Primitive Culture* (Harper); Benedict, *Patterns of Culture* (Mentor); one other text to be designated.

313. HUMAN CULTURE: ITS GROWTH, SPREAD, AND CHANGE. Third or Fourth year. (Full course.) *First Term:* The nature of human culture; its evolution and diffusion from prehistoric times to the beginnings of recorded history. *Second Term:* Analysis of the process, determinants, and principles of culture change, based on an examination of selected non-Western cultures. Attention is given to the cultural reorganization resulting from social and technological innovations and from contact with Western civilization.

3 hours.

Professor Yatsushiro

Texts: Linton, *The Tree of Culture* (Knopf); Childe, *Man Makes Himself* (Mentor); Spicer, *Human Problems in Technological Change* (Russell Sage).

- 325b. THE CULTURE AND SOCIAL ORGANIZATION OF FRENCH CANADA. Third or Fourth year. (Half course.) The description and analysis of the culture and social organization of French Canadians in the Province of Quebec and of French-speaking groups in North America.

3 hours.

(Not given in 1960-61.)

412. SOCIAL AND CULTURAL ANTHROPOLOGY. Fourth year. (Full course.) *First term:* Historical review of theories in anthropology; analysis of the social organization of non-Western peoples and cultures. *Second Term:* The patterning and integration of culture; ethos and value systems.

3 hours.

Professor Fried

- 420a. CULTURE AND PERSONALITY. Third or Fourth year. (Half course.) The study of the cultural background of personality; the effects of socialization on personality formation in diverse types of cultures, primitive and modern; the relation of social structure and cultural values to personality dynamics.

3 hours.

Professor Fried

- 422b. PRIMITIVE ECONOMICS. Third or Fourth year. (Half course.) Analysis of the modes of production, exchange, and consumption of goods and services of selected non-Western societies; the relation of economics to

ARTS AND SCIENCE

other aspects of culture; the values and motives underlying economic behaviour and the economic system.

3 hours, second term.

Professor Yatsushiro

Text: Herskovits, Economic Anthropology: A study in Comparative Economics (Knopf).

(Given in 1961-62 and alternate years.)

- 426b. PRIMITIVE RELIGION. Third or Fourth year. (Half course.) The study of religious beliefs and practices in primitive and non-Western cultures, with special reference to the relationship of religion to economic, political, stratificational, and other aspects of cultural life. Magic, witchcraft, divination, shamanism, totemism, animism, animatism, ancestor worship, and other related topics are discussed.

3 hours, second term.

Professor Yatsushiro

Text: Lessa and Vogt, Reader in Comparative Religion (Row, Peterson).

(Given in 1960-61 and alternate years.)

HONOURS SEQUENCES IN SOCIOLOGY AND ANTHROPOLOGY

Sociology and Anthropology are regarded as one discipline for the Honours degree. Students may not honour solely in Anthropology or solely in Sociology.

Admission to Honours will normally take place at the beginning of the Third year and will be determined by the student's standing in Sociology or Anthropology and related subjects. A minimum of a good second class standing in Sociology 210 or Anthropology 220 and approval of the Department is required for acceptance into Honours. Prospective Honours students are advised to take both Sociology 210 and Anthropology 220.

Honours students are required to take the following courses:

Third year:

Sociology 304 TECHNIQUES OF SOCIOLOGICAL RESEARCH

Anthropology 313 HUMAN CULTURE: ITS GROWTH, SPREAD AND CHANGE

Psychology 22a or b. PSYCHOLOGICAL STATISTICS

One and a half or two other approved courses, one of which must be in Sociology or Anthropology.

Fourth year:

Sociology 403 THEORIES OF SOCIAL BEHAVIOUR

Anthropology 412 SOCIAL AND CULTURAL ANTHROPOLOGY

Two other approved courses.

SOCIOLOGY AND ANTHROPOLOGY—ANTHROPOLOGY

JOINT HONOURS

Joint Honours with Political Science may be taken as follows:

(a) Anthropology and Political Science

Second year: Anthropology 220, Political Science 211H.

Third year: Anthropology 312, Sociology 304, Political Science 311,
Political Science 323, Political Science 324a.

Fourth year: Anthropology 313, Anthropology 412, Political Science
411.

The programme may be modified in consultation with Departmental advisers.

(b) Political Science and Sociology (see page 1063).

CONTINUATION SEQUENCES IN SOCIOLOGY AND ANTHROPOLOGY

Sociology and Anthropology are regarded as separate disciplines for continuation purposes. Students may continue in either Sociology or Anthropology; they may not continue in both. Third year students must choose courses from the following list:

Sociology: 301, 302, 303, 304.

Anthropology: 312, 313, 420a, 426b.

Fourth year students must choose courses from the following list:

Sociology: 401, 402, 403.

Anthropology: 312, 313, 412, 420a, 426b.

SOCIOLOGY

The following sequences are suggested for the General Arts students who have chosen Sociology for continuation:

Industrial Relations or Pre-professional: 210, 301, 402.

Community Organization: 210, 302, 401 or 402.

Social Psychology: 210, 303, 401 or 403.

ANTHROPOLOGY

The following sequences are suggested for General Arts students who have chosen Anthropology for continuation:

Culture or Institutions: 220, 313, 420a, 422b or 426b.

Ethnography: 220, 312, 412.

ZOOLOGY

<i>Professors</i>	JOHN STANLEY, <i>Chairman</i> N. J. BERRILL M. J. DUNBAR
<i>Professor of Parasitology</i>	T. W. M. CAMERON
<i>Assistant Professor</i>	JOAN MARSDEN
<i>Lecturers</i>	_____
<i>Sessional Lecturer</i>	B. E. MAXWELL A. CAMERON
<i>Carpenter Teaching Fellow</i>	_____

100a. & 100b. ELEMENTARY ZOOLOGY (Half course). This half course is given as two identical Sections, one in the Fall Term (Section "a"), the other in the Spring (Section "b"). The student may elect either Section. If Zoology 100a is taken, Botany 100b *must* be taken in the Spring Term of the same Session. If Zoology 100b is taken, Botany 100a *must* have been taken in the Fall Term of the same Session. A student may take only one Section of Zoology or Botany per term. A Section of Zoology and a Section of Botany must be taken in the same academic year.

Zoology 100a (or b) is an introductory course in Zoology, dealing with the anatomy, physiology, etc., of the vertebrate animals, with particular reference to the evolution of Man.

2 hours lectures and 2 hours laboratory per week in the chosen term.

Section "a" *Professor Berrill*

Section "b" *Professor Stanley*

Text: Storer and Usinger, *General Zoology* (McGraw-Hill).

Note: Zoology 100a (or b) together with Botany 100b (or a) really constitutes a course which might be called "Biology 100", and the student must take both halves of this in the one session, but in different terms. It is prerequisite to all other courses in Zoology.

211. THE INVERTEBRATE ANIMAL KINGDOM. (Full course.) A general introduction to the invertebrates, covering the structure, function, environmental relationships, economic importance and evolutionary significance of the main groups. This course is prerequisite to Zoology 324 and 325.

2 hours lecture and 3 hours laboratory. *Professor Berrill*

Prerequisite: Zoology 100a (or b) and Botany 100a (or b) or Biology 100.

221. VERTEBRATE ZOOLOGY. (Full course.) The evolutionary history of vertebrate animals, including the origin, classification, and special features

of the classes of vertebrates and the comparative anatomy of the functional systems of the body. Dissection of a series of representative vertebrates with special emphasis on mammalian anatomy.

2 hours lectures and 3 hours laboratory.

Professor Marsden

Prerequisite: Zoology 100a (or b) and Botany 100a (or b) or Biology 100.

Text: Walter and Sayles, *Biology of the Vertebrates* (Macmillan).

322. VERTEBRATE HISTOLOGY AND EMBRYOLOGY. (Full course.) A comparative study of the microscopic structure of vertebrate tissues and organs, and of embryonic development in the various classes of vertebrates.

2 hours lectures and 3 hours laboratory.

Professor Berrill and Dr. Maxwell

Prerequisite: Zoology 221 (with permission may be taken concurrently).

324. ADVANCED INVERTEBRATE ZOOLOGY (EXCEPT ARTHROPODA). (Full course.)

A study of the comparative anatomy, taxonomy, development, evolution, and economic importance of invertebrate animals other than the Phylum *Arthropoda*.

2 hours lectures and 3 hours laboratory.

Professor Stanley

Prerequisite: Zoology 211.

Texts: Borradaile, Eastham, Potts and Saunders, *The Invertebrata* (Cambridge); Pratt, *Manual of the Common Invertebrates* (MacMillan), A laboratory manual is issued by the Department.

(Offered in alternate years. Not offered in 1960-61.)

325. THE ARTHROPODA. (Full course.) A study of the comparative anatomy, taxonomy, development, evolution, and economic importance of animals of the Phylum *Arthropoda*.

2 hours lecture and 3 hours laboratory.

Professor Stanley

Prerequisite: Zoology 211.

Texts: Borradaile, Eastham, Potts and Saunders, *The Invertebrata* (Cambridge); Pratt, *Manual of the Common Invertebrates* (MacMillan). A laboratory manual is issued by the Department.

(Offered in alternate years. Offered in 1960-61.)

327. ORNITHOLOGY. (Full course.)

A comprehensive study of the Class Aves, with special reference to anatomy, breeding biology, ecology, ethology, and migration. Some field work will be undertaken.

2 hours lectures and 3 hours laboratory per week.

Prerequisite: Zoology 221.

(Not offered in 1960-61.)

332. ANIMAL ECOLOGY. (Full course.) A study of the inter-relations between animals, groups of animals, and their environments. The zoogeography of terrestrial, marine, and fresh-water populations; the analysis of the physical environment in all three divisions of the biosphere; migrations, emigrations, and other movements of animals, and the numerical behaviour of populations. Ecology and evolution.

3 hours.

Professor Dunbar

Prerequisites: Zoology 211 or 221.

- 337b. HISTORY OF BIOLOGY. (Half course.) The history of biology from Thales to the present day including the development of scientific observation in anatomy, comparative morphology, ecology, embryology, and palaeontology. Theories of the relationships of animals, parts of animals, and of their evolution. Philosophical history of biology. Biological expeditions.

3 lectures per week, second term.

Professor Dunbar

(Offered in alternate years. Offered in 1960-61.)

Prerequisite: Biology 100 or Zoology 100a (or b) and Botany 100a (or b).

341. ANIMAL BEHAVIOUR. (Full course.) The objective approach to the study of animal behaviour as exemplified in the science of Ethology. A summary of the results and importance of ethological research including its application to mankind, stressing the value of both descriptive and analytical work, and including studies of both invertebrates and vertebrates.

3 hours.

Prerequisite: Zoology 211 or 221, and if possible Zoology 332 (with permission the last-named may be taken concurrently).

(Not offered in 1960-61.)

343. LIMNOLOGY. (Half course.) A study of the fresh water environment and its organisms. The classification of inland waters, the physical, chemical and biological characteristics of lakes. Productivity of and evolutionary changes in lakes. Rivers, bogs, special types of lakes.

First term: 1 lecture per week with seminars and field trips. Second term: 1 lecture per week with field trips when possible. *Professor Marsden*

345. PHYSIOLOGICAL ZOOLOGY. (Full course.) A functional study of diverse mechanisms which have been evolved in different types of animals to carry on such basic activities of life as nutrition, water balance, nitrogen

ZOOLOGY

excretion, respiration, locomotion, stimulus reception, nervous and endocrine co-ordination.

2 hours lectures and 3 hours laboratory per week throughout the session.

Professor Marsden

(Not offered in 1960-61.)

Prerequisites: Zoology 211 or 221, and Physiology 22.

431. HISTOLOGICAL TECHNIQUE (PRACTICE AND THEORY). (Full course.) Training in the making of various types of histological preparations; discussion of the theories involved and interpretation of the results obtained.

1 hour lecture and 6 hours laboratory.

Dr. Maxwell

Prerequisite: Zoology 322a (Second class standing).

Text: Carleton & Drury, *Histological Technique* (Oxford University Press).

435. APPLIED BIOMATHEMATICS. (Half course.) An elementary study of mathematical theories of growth and form, mathematics as applied to growth of populations, host-parasite relations, radio-active tracers, the steady state, contagious distributions, the theory of search.

2 lectures per week in the first term; one per week second term.

Professor Stanley

Prerequisite: Mathematics 224 (or a good working knowledge of the calculus) and any biology course.

441. ZOOLOGICAL RESEARCH. (*Honours* Zoology only, Fourth year.) Individual training in zoological research methods, fields of research, and introduction to field and laboratory projects. Thesis and seminar presentations.

The Staff

446. ADVANCED VERTEBRATE ZOOLOGY. (Full course.) A study of the present systematics of the vertebrate classes presented as a function of their past histories since the periods of their first appearance. The subject is approached from the ecological and anatomical points of view. Special attention is given to the mammals in the second part of the course.

Three hours lecture per week.

Professor Dunbar and Dr. Austin Cameron

Prerequisite: Zoology 221.

HONOURS COURSE IN ZOOLOGY

The succession of courses taken in Honours Zoology will normally be as follows, but this procedure may be varied in special cases by permission of the Department.

ARTS AND SCIENCE

First year: The general B.Sc. curriculum, with Zoology 100a (or b) and Botany 100a (or b), or Biology 100.

Second year: Zoology 211, 221, Physiology 21, plus a half course in Botany if not already taken, plus sufficient whole and half courses to make up a total of five full courses. The additional courses as above are to be selected with the advice of the Department from cognate fields or from courses in Zoology.

Third year: Zoology 322, 324 (if given in that year), 332, 337b (if given in that year), plus sufficient whole and half courses to make up a total of five full courses.

Fourth year: Zoology 324 (if given in that year), 337b (if given in that year), 441 and Genetics 44, plus sufficient whole and half courses to make up a total of five full courses, selected as in the case of the Second year.

With respect to the additional selected courses, such courses as Organic Chemistry, Physical Chemistry, Botany, Genetics, Physiology, and the like are emphasized.

CONTINUATION COURSES

Second year: Zoology 211, 221.

Third year: Zoology 221, 322, 324, 325, 332, 337b, 343, 446.

Fourth year: Zoology 324, 325, 332, 337b, 343, 431, 435, 446.

Attention is called to the "General Honours in Biological Sciences" page 1025.

A student who has not completed Zoology 100a (or b) and Botany 100a (or b) or Biology 100 *must* obtain permission of the Department of Zoology before proceeding to more advanced courses in Zoology.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

McGill University

Montreal



School of Commerce

Arthur Purvis Memorial Hall

1960-1961

ARTS AND SCIENCE

First year: The general B.Sc. curriculum, with Zoology 100a (or b) and Botany 100a (or b), or Biology 100.

Second year: Zoology 211, 221, Physiology 21, plus a half course in Botany if not already taken, plus sufficient whole and half courses to make up a total of five full courses. The additional courses as above are to be selected with the advice of the Department from cognate fields or from courses in Zoology.

Third year: Zoology 322, 324 (if given in that year), 332, 337b (if given in that year), plus sufficient whole and half courses to make up a total of five full courses.

Fourth year: Zoology 324 (if given in that year), 337b (if given in that year), 441 and Genetics 44, plus sufficient whole and half courses to make up a total of five full courses, selected as in the case of the Second year.

With respect to the additional selected courses, such courses as Organic Chemistry, Physical Chemistry, Botany, Genetics, Physiology, and the like are emphasized.

CONTINUATION COURSES

Second year: Zoology 211, 221.

Third year: Zoology 221, 322, 324, 325, 332, 337b, 343, 446.

Fourth year: Zoology 324, 325, 332, 337b, 343, 431, 435, 446.

Attention is called to the "General Honours in Biological Sciences" page 1025.

A student who has not completed Zoology 100a (or b) and Botany 100a (or b) or Biology 100 *must* obtain permission of the Department of Zoology before proceeding to more advanced courses in Zoology.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

McGill University

Montreal



School of Commerce

Arthur Purvis Memorial Hall

1960-1961

PUBLICATIONS

The following official publications are issued by the University and may be obtained from the Registrar's Office.

Announcements of Faculties and Schools as follows:

General Announcement

School Certificate Examinations

Scholarships, Bursaries, and Loan Funds

Faculty of Arts and Science (Degrees in Liberal Arts and in Pure Science. There is a separate Announcement for the School of Commerce.)

Faculty of Medicine

Faculty of Medicine Postgraduate Courses

Faculty of Dentistry

Faculty of Engineering (Degrees in Engineering and in Architecture.)

Faculty of Law

Faculty of Music

Faculty of Divinity

Faculty of Graduate Studies and Research

School of Commerce

Institute of Education

Library School

School for Graduate Nurses

School of Physical and Occupational Therapy

School of Social Work

Macdonald College (Faculty of Agriculture, and School of Household Science.)

French Summer School

Extension Courses

The Directory of Staff (University administrative officers, standing committees, and officers of instruction. Limited distribution.)

The Calendar (Available for distribution only to libraries and officials of certain institutions.)

School of Commerce

The School of Commerce is under the administrative jurisdiction of the Faculty of Arts and Science (McGill College).

ADMINISTRATIVE OFFICERS

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A complete list of the teaching staff of the University, including the School of Commerce, is printed as a separate announcement, which may be obtained from the Registrar's Office.

SCHOOL OF COMMERCE OFFICE

ARTHUR PURVIS MEMORIAL HALL

1020 Pine Avenue West

Montreal 2

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J. B. WHITE, *Vice-President, Aluminum Co. of Canada, Ltd.*
E. C. WOOD, *President, Imperial Tobacco Co. of Canada*
PROF. E. W. KIERANS, *Director of the School of Commerce*
DR. W. H. PUGSLEY, *Secretary*

School of Commerce

PRELIMINARY STATEMENT

The programme of the School of Commerce is designed to provide training for business and administrative careers in industry and the public service, and includes undergraduate training, graduate training, and extension activities for graduates and non-graduates. The programme is organized in several divisions, as follows:—

Bachelor of Commerce Degree—A four-year course of study designed to prepare the student for the B.Com. degree.

Evening Certificate and Diploma Courses—Training courses in Accounting, Mathematics, Commercial Law, and allied subjects to assist evening students to prepare for certificate and diploma examinations conducted by the School, and to meet the requirements of certain professional societies.

Industrial Relations Centre—A centre established for the purpose of bringing members of the University staff and of the industrial community together with a view to promoting study and research in fields associated with industrial relations.

COMMERCE LIBRARY

The Commerce Library is located in Purvis Hall and consists of over 24,882 books and periodicals and 9,829 pamphlets in the field of economics, business, industrial relations, and management. These materials are readily available on the shelves and in files in the library reading room. The facilities of the Redpath Library are also available to students.

UNDERGRADUATE PROGRAMME

The Bachelor of Commerce Degree

AIMS OF THE SCHOOL

Very few students come to University determined on a particular career. Indeed, if this were not so, the whole purpose of a University education would be defeated for it is here, in the study of the customs, traditions and cultures of other civilizations, in the analysis of ancient and modern philosophies, in the pursuit of scientific knowledge and truth that the young man obtains that broad and varied background without which he can hardly make a wise and effective choice of his life's work. Having made that choice, one can expect that the student will concentrate upon it and endeavour to build as full and rich a life as possible. We must not assume, since we are not a professional graduate school, that his future is determined and proceed to train before we educate.

The curriculum is based on compulsory courses in English, Mathematics, a language option and continuations in one or more selected Arts subjects. The purpose is, as stated above, to incorporate the essential values of the liberal tradition in the program of the Commerce student, the tradition which enables him to identify himself with the experience and thought of the past and which will guide him in the creative work of his own future.

Building upon this foundation in the basic humanities, the student undertakes a formal, rigorous program in Economics, including courses in Economic History, Principles of Economics, Money and Banking, Statistics and Applied Economic Analysis. Here the purpose is to acquaint him with the underlying and basic economic laws, principles and forces which work in and through our enterprise system and to emphasize the social obligations and public responsibilities of business leadership. Additional options in Political Science, Geography, Sociology and Psychology are also available and the student is encouraged to broaden his understanding of contemporary social and political institutions by working in these fields.

The third general area covers the Applied Economic and Commerce subjects and the student is required to take two courses in Accounting and one in Commercial Law—courses which are designed to introduce him to corporate methods, forms of organization, principles of accounts and the legal framework within which business operates. Additional courses in Accounting are available for students going into the profession and there are also options in particular aspects of business such as Marketing, Administration, etc.

There is often a misunderstanding about the nature of a School of Commerce. We are in no sense a vocational school. Vocational training does contribute to the freedom of the individual, as does all education, but we are not concerned to graduate students as qualified personnel managers, marketing specialists or professional accountants. All subjects must be, and are being, taught liberally, i.e. in such fashion as to provide a careful training of the mind and to require the student to use his intellectual faculties with skill and confidence—a disciplining which makes him aware of his mental powers, his powers of apprehension, insight, judgment and reasoning. "Men are men before they are lawyers or physicians or manufacturers; and if you make them capable and sensible men, they will make themselves capable and sensible lawyers or physicians." This statement by John Stuart Mill describes the educational philosophy of the School of Commerce.

ADMISSION TO THE SCHOOL OF COMMERCE

All applications to enter the School of Commerce must be made on forms which may be obtained from the Registrar's Office. Each applicant from a High School should see that a confidential report is sent from his school Principal to the Registrar, as such a report is necessary for the consideration of the application. Completed applications should reach the Registrar not later than August 31st, and if possible much earlier.

Each accepted candidate will receive a formal acceptance to a definite course and year and this must be kept for presentation at registration.

The number of admissions is limited and the School is not bound to accept all applicants who have passed the required examinations.

ADMISSION TO THE FIRST YEAR

A student may apply for admission to the First year of the B.Com. course after passing in specified subjects of the McGill School Certificate Examination or one of the examinations recognized by the University. For details, see the School Certificate Examinations Announcement.

ADMISSION TO THE SECOND YEAR WITH SENIOR MATRICULATION

A student may apply for admission to the Second year if he has passed in specified subjects of the Senior School Certificate Examinations, or recognized equivalent, and if he has achieved an average of at least 70% on the examination as a whole. Special consideration may, however, be given to candidates who have received an average of 65% to 70% if they have obtained high standing in each of the English, History, and Mathematics examinations. For further particulars, see the School Certificate Examinations Announcement.

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ADMISSION BY TRANSFER

Application for transfer into an upper year of the School should be made to the Registrar's Office. It must be made on the regular form and be supported by certified copies of the applicant's previous academic record including the matriculation record. Such an application will be considered only if the student is in good standing and has a record which justifies the transfer.

Students admitted into the Second or the Third year will be required to take certain courses compulsory in a lower year, unless exempted.

Two years of residence are required as minimum for the degree, hence students cannot be allowed to transfer into the Fourth year.

REGISTRATION

All First year students in the School of Commerce will register on Thursday, September 15th, between 9 a.m. and 12.00 noon, in the Sir Arthur Currie Memorial Gymnasium. Students in the Second, Third, and Fourth years whose names begin with the letters A to L will register in the Gymnasium on Tuesday, September 20th and those whose names begin with the letters M to Z will register on Wednesday, September 21st between 9 a.m. and 4 p.m.

The Freshman Welcome meeting will take place on Friday, September 16th in the Gymnasium at 9 a.m.

After September 21st a special late registration fee must be paid (see the General Information Pamphlet included in this Announcement).

No student will be admitted after October 1st except by special permission of the Dean.

All women undergraduates registered at McGill University are automatically members of the Royal Victoria College, whether in residence or not, and at the time of registration will be required to fill out special forms for the Royal Victoria College. Women undergraduates not residing with their parents or guardians in Montreal must apply for residence in the College, attaching, if desired, a note describing in full their plans for residence elsewhere, and obtain the Warden's written approval (*See the General Information pamphlet.*).

REGISTRATION PROCEDURE

Each regular undergraduate must be registered for the courses and year to which he has been accepted. Limited undergraduates and Partials must obtain approval of their courses from the Director of the School and the Dean's office before proceeding to register.

All students intending to take an Honours Course (Economics or Political Science) must obtain the approval of the Chairman of the appropriate department and of the Director of the School before registration.

Courses of study for the B.Com. degree are laid down on pages 1212-1214 and details of these courses are found in pages 1214 to 1246. Information regarding registration for Honours, or Distinction and Great Distinction is found on pages 1210-1211.

ATTENDANCE, EXAMINATIONS, AND ADVANCEMENT

The attention of students in Commerce is called to a separate pamphlet entitled *Regulations Governing Attendance, Examinations, and Advancement*, issued by the Faculty of Arts and Science. This booklet is distributed at the time of registration. Extra copies may be obtained through the Dean's Office.

FEES

Regular University fees and special fees are explained in the General Information Pamphlet enclosed with this Announcement.

The University reserves the right to make changes without notice in the published scale of fees if, in the opinion of the Board of Governors, circumstances so require. Fees are not refundable, except under special conditions as described in the regulations concerning remission of fees in the General Information Pamphlet.

DATES OF PAYMENT

Fees are due and payable at the Accounting Office between the hours of 9 a.m. and 4 p.m. (Saturday 9-12), on the following dates:—

Thursday, September 15th

to

Friday, September 30th

If desired, fees may be remitted by mail before the above dates.

The second instalment of tuition fees is due and payable on January 15th. An additional \$2.00 is charged for payment after the specified dates.

Students registering late pay their fees at the time of registration, failing which they become subject to the provisions of the above paragraph.

Failure to pay fees by the prescribed dates will result in suspension from attendance at classes by the Dean of the Faculty until fees are paid, or a satisfactory arrangement is made with the Chief Accountant.

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EXPENSES

An estimate of expenses will be found in the General Information Pamphlet included in this Announcement.

PASS MARK AND CLASSES

The pass mark in all examinations is 50 per cent, and the minimum marks for first and second class standing are 80 per cent and 65 per cent respectively.

DISTINCTION AND HONOURS

Distinction in the General Course will be awarded to students, other than those registered in the Honours course in Economics, who achieve a 75 per cent average in the Second, Third, and Fourth years.

Great Distinction will be awarded to students who achieve an 80 per cent average in the Second, Third, and Fourth years.

Honours in Economics and in Political Science

At the beginning of his second year a student whose average mark in his first year is 65% or more may elect Honours in Economics (or Honours in Political Science with specialization in Public Administration), provided that he obtains the permission of the Chairman of the Department of Economics and Political Science. To remain in Honours he must attain a yearly average of at least 65% in those courses he takes within the Department. Individual tutorial guidance is provided for the student in Honours during his third and fourth years.

The requirements of Honours Economics, in conjunction with the ordinary requirements of the School of Commerce, determine the following programme of studies. During the four years of his studies the student must take at least seven courses in Economics. In the first year he takes the ordinary programme of the School of Commerce, including Economics 100 (Economic History). In his second year he takes the regular courses in the School of Commerce except that he substitutes Economics 211H (Introduction to Economic Theory) for Economics 211C (Principles of Economics). In his third year he takes Economics 311 (History of Economic Thought), Economics 321H (Money and Banking), Economics 361 (Economic Statistics), a course in the Arts continuation begun in second year, and a fifth course as the School of Commerce allows. In his final year he takes Economics 411 (Advanced Economic Theory) instead of Economics 412 (Economic Analysis), any further courses in Economics to meet the overall minimum of seven, a further course in his continuation subject, a course in Commercial Law, and the balance of his programme as the School and Department allow. His choice of courses in Economics must prepare the student for the "Special Paper" described in the section on examinations that follows.

DISTINCTION AND HONOURS

Students who wish to take Honours Political Science (with specialization in Public Administration) should consult the Department for details of course and examination requirements.

For a complete description of courses offered by the Department of Economics and Political Science, students should refer to the Arts and Science Calendar.

Final Examinations for Honours in Economics

At the end of his fourth year, the student who has elected Honours Economics writes the following examinations:

(a) *A Major paper:* This will be a two-part examination. Part I (3 hours) will be the course examination on the Major subject taken in the Fourth year, i.e. Economics 411. Part II (2 hours) will be of a more general and comprehensive character and will attempt to test the student's ability to integrate his knowledge of the Major field. It will be based, to a large extent, on the subject matter of Economics 211H and 311.

(b) *A Special paper:* This examination will cover the field chosen by the student for specialization and will be based on the sequence of courses in this field and on special reading and research. Examples of fields for specialization are Economic Theory, Labour Economics, International Trade, etc. Courses elected in the Third and Fourth year will not be approved unless their sequence prepares the student for this requirement. The "special paper" replaces the ordinary examination in the corresponding course in economics.

(c) ordinary examinations in all other courses.

The effect of this programme is that the Honours student writes the same number of papers as the general student, but that one of the papers he writes has supplementary questions, and that another replaces an ordinary course examination.

STUDENTS WORKING TOWARDS A PROFESSION

Students who intend after graduation to enter a profession should acquaint themselves with the requirements for admission to that profession, and should take these requirements into consideration when choosing their optional courses.

Candidates for the Licentiate in Accountancy of McGill University, conferring on its holders the right to become members of the Institute of Chartered Accountants of Quebec, should have their programmes approved by the Professor of Accounting or the Director of the School of Commerce.

Students who wish to enter the actuarial profession should take Mathematics 216 in their First year. The courses in Actuarial Mathematics on pages 1237-1238 offer a sound basis for professional work in this field.

THE DIPLOMA OF LICENTIATE IN ACCOUNTING OF MCGILL UNIVERSITY

The holder of this Diploma is entitled to become a member of the Institute of Chartered Accountants of Quebec provided:

- (i) that he has successfully completed the courses which are prescribed, for this purpose, by the School of Commerce in the University.
- (ii) that he has, after graduation, completed one year of service in the office of a public accountant who is a member of the Institute.
- (iii) that he has passed the prescribed Final Examination.

Graduates of the University who hold its degree of "Bachelor of Commerce" will be held to have met the first of the stipulations, above, if, in the course of the work for that degree, they have successfully completed the courses which are, at present, designated Accounting 101, 201, 301 and 401. If such candidates have (in addition to the successful completion of these four courses) successfully completed the course at present designated Accounting 402, and have obtained at least Second Class standing in each of Accounting 401 and Accounting 402, they will be exempt from subsequent examination in Accounting Evening Courses C461 and C462. They will, however, be required to attend, and to complete appropriate class-work in, these courses.

Note: Graduates of the University who wish to enter the profession of Accounting, but who have not followed the curriculum (as described above) for the Diploma of Licentiate in Accounting of the University, may do so by successfully completing a prescribed course of training which normally consists of three years of Evening Courses in Accounting, with at least two years of service in an approved office. Students should consult the Director of the School of Commerce and the Executive Secretary of the Institute of Chartered Accountants of the Province of Quebec, C. D. Mellor, Esq., C.A., Chartered Accountants Building, 630 Laguardière Street West.

CURRICULUM

The curriculum leading to a B.Com. degree consists in part of compulsory courses and in part of optional courses chosen in accordance with the student's individual interests. As optional courses a student may take any courses offered in the Faculty of Arts and Science which are approved by the Director. A student in any year is expected to satisfy himself, before he selects any optional course:

- (1) That he has completed any pre-requisite work for the course,
- (2) That there is no conflict in his time-table,
- (3) That his selection is approved by the Director

The choice of optional courses is very important. Only one limited option is permitted in the First year. During that year the student should seek guidance from faculty members to assist him in working out for later years an integrated group of courses most suited to his interests and needs. For example, the student planning to become a Chartered Accountant should be sure that he elects the appropriate options required for this professional training. Similarly, a student interested in specialization in Industrial Relations should obtain advice on the most appropriate grouping of optional courses in Economics, Psychology, and Sociology. The high degree of flexibility provided by the optional system makes careful selection imperative.

English Composition Requirement. Every candidate for a degree in the Faculty of Arts and Science must satisfy the Department of English (which, in this matter, acts as the agent of Faculty) that he is competent in English composition. In addition to the other requirements for the degree, therefore, all students, in their first year in the Faculty, must register in English 100C. When a student has succeeded in demonstrating his competence in this course, he will be dispensed from further attendance at it.

Students whose native language is not English are also required to write a language test on the basis of which they will be assigned to English 100C or English 150 or both.

MINIMUM REQUIREMENTS FOR THE DEGREE OF BACHELOR OF COMMERCE.

Compulsory Courses	Elective Courses
FIRST YEAR	
English 100	One of French 11*
English 100C	Spanish 11
Mathematics 111	German 100
Economic History (Economics 100)	Italian 11
Accounting 101	Latin 1
	Greek 1
	Russian 100
SECOND YEAR	
Elements of Economics (Economics 211C)	One of the following:
Accounting 201	Geography 211
Elementary Calculus (Mathematics 224)	Political Science 211G
	Psychology 21
	Sociology 210

AND

*See page 1229.

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A continuation subject from the following:

English
French
German
History
Italian
Philosophy
Spanish
Russian

THIRD YEAR

Money and Banking
(Economics 321)
Statistics 361

A further course in the continuation subject selected in second year.

Two additional courses from Section II (Continuation Subjects) or Section III (Options in Commerce and the Social Sciences).

FOURTH YEAR

Economic Analysis
(Economics 412)
Commercial Law I

A further course in the continuation subject selected in Second year.

Two additional courses from Section II (Continuation Subjects) or Section III (Options in Commerce and the Social Sciences).

DESCRIPTION OF COURSES

The following list includes all required courses for the B.Com. degree, as well as the principal courses available as options from which the student may choose to complete his programme. Unlisted courses offered by the Faculty of Arts and Science may also be chosen. *The complete programme of any student must be approved by the Director.*

The list is divided as follows:

- (i) Required courses for the B.Com. degree.
- (ii) The principal subjects available as Arts and Science continuations.
- (iii) The ten options in Commerce and the Social Sciences.

SECTION I

REQUIRED COURSES FOR THE B.COM. DEGREE

ACCOUNTING

101. ELEMENTS OF ACCOUNTING. First year (Full course). Introduction to Books of Account and Financial Statements; theory of debit and credit;

COURSES IN ACCOUNTING AND ECONOMICS

principles of double entry; the accounting cycle; recording of transactions in the general journal and general ledger; principles of control accounts; accounts receivable and accounts payable ledgers; provision for bad debts and cash discounts; use of special books of original entry including cash receipts and cash payments books, cheque register, sales and purchase journals, and voucher register; distinction between capital and revenue expenditure; accounting for petty cash; bank reconciliation statements; notes and bills of exchange; inventories; preparation of Profit and Loss Accounts or Statements and Balance Sheets, with adjusting and closing entries.

3 hours.

Professor A. R. Marshall

201. INTERMEDIATE ACCOUNTING. Second year (Full course). Revision of the work of First year at a more advanced level.

Partnerships: accounting for formation, distribution of profits; admission and withdrawal of partners including treatment of goodwill and bonus; partnership dissolution and liquidation; default of a partner; sale of a partnership to a limited company.

Manufacturing accounts and statements; the elements of cost; periodic and perpetual inventories; transfer of goods to trading department at a price in excess of factory cost, with adjustment of inventories.

Single entry: books and accounts required; preparation of financial statements from single entry data; conversion to double entry.

Corporations: legal aspects; types of shares; elementary treatment of issues of capital stock, bonds and debentures; classification of corporate surplus; dividends; correction of profits of prior periods; "clean surplus theory" and "current operating concept of income measurement."

Asset accounting with particular emphasis on cash; receivables; inventories; investments; tangible and intangible fixed assets.

Elementary consideration of financial statements; analysis and interpretation; methods of presentation; statements of source and application of funds.

Advance advice as to accounting techniques; consignment accounting; branch accounting; cost accounting; budgets.

3 hours.

Professors D. R. Patton and A. R. Marshall

(Req. B.Com.)

ECONOMICS

100. ECONOMIC HISTORY. First year (Full course). Evolution of economic institutions; the ancient empires; economic and social aspects of the decline and fall of the Roman Empire; mediaeval agrarian economy; fairs, towns and trading companies; mediaeval money; the voyages of

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discovery; religion and the rise of capitalism; nationalism and mercantilism; the colonial system; the beginnings of modern banking; the great inventions and the factory system; North American industrial development; trade unions and the co-operative movement; legislative protection of the worker; international finance; rise and fall of the gold standard; evolution of the central banking function; recent economic changes.

3 hours.

Professor James

211C. PRINCIPLES OF ECONOMICS. Second year (Full course). An introduction to the general principles of economics, covering monetary systems, price levels, national income, production, competition, and international trade.

3 hours.

Professor D. McC. Wright

321. MONEY AND BANKING. Third year (Full course). Theory and practice of money and credit; organization and operations of financial institutions; monetary policy; concept and function of money; early history of credit institutions; the Peel Bank Act, and the development of the British financial system; the National Banking System in U.S. and the evolution of the Federal Reserve System; early development of Canadian banking; effects of World Wars I and II and of the Great Depression on U.S., U.K., and Canadian banking.

3 hours.

Professor

361. ECONOMIC STATISTICS. Third year (Full course). Description of frequency distributions including averages, dispersion, and skewness. Charting and analysis of time series: trend lines, seasonal indexes, and measurement of cyclical fluctuations. Index numbers. Simple linear correlation. An introduction to Statistical Inference covering the following topics; elementary distributions, sampling, tests of statistical hypotheses, and estimation of population parameters.

2 hours lecture, 2 hours laboratory.

Professor E. F. Beach

412. ECONOMIC ANALYSIS. Third or Fourth year (Full course). Analysis of the economic problems of the firm; the determination of the demand curve; the forecasting of demand; the measurement of costs; pricing problems in various types of markets; the determination of optimum policies for such matters as advertising, packaging, and premiums.

3 hours.

Professor D. E. Armstrong

ENGLISH

100. ENGLISH LITERATURE (Full course). A selection of major works in the English literary tradition from medieval to modern times.

COURSES IN ENGLISH

A student whose mother tongue is not English and who might, therefore, encounter unusual difficulties with English 100 may be directed by the Department to take English 150 before proceeding to English 100.

3 hours (1 lecture and 2 tutorial meetings).

Professor R. S. Walker and Members of the Department of English

100C. ENGLISH COMPOSITION. At the beginning of the session students will be required to take a test in Composition. Students who attain a high standard in the work of the class may be exempted from the final examination.

1 hour per week throughout the session.

Professor A. Lucas and Members of the Department of English

REGISTRATION IN ENGLISH 100 AND 100C: It is important to register at the start of the session. Classes missed through late registration are counted as absences; no student whose unexcused absences exceed one eighth of the number of meetings in the Course is permitted to write the final examination. Assignments unfulfilled because of late registration cannot be made up; marks obtained for assignments provide 50% of the final grade for the Course.

Those required to repeat the Course are subject to all the regulations governing First year students.

150. ELEMENTARY ENGLISH COMPOSITION. This course is especially designed to help students whose mother tongue is not English and who have particular difficulty in the writing of correct idiomatic English.

First year students whose mother tongue is not English, and whose proficiency in the use of English is not such, in the opinion of the Department, as to enable them to profit adequately from Course 100C, will be directed to take Course 150 before proceeding to Courses 100 and 100C. First year students not so directed, and students in other years, may, with the permission of the instructor, elect this course; but they cannot thereby gain any credit towards a degree.

2 hours per week throughout the session.

Mrs. Janet Belanzos-Santos

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LAW

COMMERCIAL LAW 1. (Full course.) Law of Contracts, Sale, Agency, Partnership, Company Law, and Negotiable Instruments.

3 hours.

Professor R. S. Willis

(Req. B.Com.)

MATHEMATICS

First year students will normally register for Mathematics 111.

Courses 113 and 216 are of a more advanced nature and concentrate on the development of facility in doing difficult and interesting problems. Students who have passed well in Intermediate Algebra and Trigonometry at Junior Matriculation should take 113 or 216 instead of 111.

111. TRIGONOMETRY, ALGEBRA, ANALYTICAL GEOMETRY (Full course.)

PLANE TRIGONOMETRY. Radian measure, logarithms, definitions of the trigonometrical functions, relations between the trigonometrical functions, reduction of angles, addition formulae, transformations of sums and products, logarithmic solution of triangles, problems in heights and distances, inverse functions, solution of trigonometric equations, graphs.

ALGEBRA. Variation, progressions, with applications to compound interest, permutations and combinations, mathematical induction, binomial theorem, theory of quadratic equations.

ANALYTIC GEOMETRY. The analytic geometry of the straight line and circle.

3 hours.

Professor Tate

Text: H. Tate, Elementary Mathematical Analysis (Pitman).

113. ADVANCED TRIGONOMETRY AND ALGEBRA. (Full course.) Treatment of topics in trigonometry not covered for matriculation, including graphs of trigonometric functions and graphical solution of equations.

Binomial theorem, summation of series, sigma notation, mathematical induction, analytic geometry.

3 hours.

Professor Burrow

Text: H. Tate, Elementary Mathematical Analysis (Pitman).

216. SURVEY OF MATHEMATICS (Full Course). Review of trigonometry, analytic geometry of the straight line and circle, mathematical induction, prime numbers, indeterminate equations, complex number, polynomials, theory of equations, probability, elementary solid geometry, polyhedra, introduction to mathematical logic and elementary set theory.

3 hours.

Professor Oler

COURSES IN ENGLISH

224. ELEMENTARY CALCULUS. (Full course.) Graphical representation; limits, differentiation and integration of elementary functions, with applications to the determination of lengths, areas, and volumes and the solution of simple problems in mechanics, physics, etc.; partial differentiation.

This course is intended to give students of biochemistry, chemistry, economics, and sociology a working knowledge of the elements of calculus.

3 hours.

Professor Herbert Tate and others

Text: H. M. Bacon, Differential and Integral Calculus (McGraw-Hill).

SECTION II

CONTINUATION SUBJECTS

In his Second year a Commerce student is required to select a subject from the following, English, History, Philosophy, French, German, Russian, Italian, and Spanish, and to continue his studies in this area through the Third and Fourth years. Each student's programme is subject to the approval of the Director.

ENGLISH

COURSES OPEN TO STUDENTS IN THE SECOND YEAR

Courses open to students in the Second year cannot be taken twice for credit even when their content is changed from year to year.

200. SHAKESPEARE (Full course). For Second year students only.
3 hours. *Professor R. S. Walker*
220. ENGLISH LITERATURE IN THE EIGHTEENTH CENTURY (Full course).
3 hours. *Professor H. G. Files*
230. ENGLISH LITERATURE IN THE NINETEENTH CENTURY (Full course).
For Second year students only. Recommended as a suitable continuation course.
3 hours *Professor G. F. Sleight*
240. AMERICAN LITERATURE (Full course).
3 hours. *Professor H. G. Files*
(Not given in 1960-61.)
250. CREATIVE WRITING—INTERMEDIATE (Full course). *Registration is strictly limited to those who can produce evidence of special talent in original composition. Students must have the instructor's permission to take this course.*
Hours to be arranged. *Professor Constance Beresford-Howe*

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290. THE GREAT WRITINGS OF EUROPE (Full course). For 1960-61 the period studied will be from 1850 to the present. Most of the works studied are available in translation.

3 hours.

Professor L. Dudek

COURSES OPEN TO STUDENTS IN THE THIRD AND FOURTH YEARS

Third and Fourth year students may take any of the courses open to Second year students except English 200 and 230.

300. OLD ENGLISH (Full course). English Language and Literature up to the Norman Conquest. The course includes readings from Anglo-Saxon prose in the first term; and in the second, a study of heroic poetry. The texts used are: Bright, *Anglo-Saxon Reader* and *Beowulf* (ed. Klaeber). The course is open to Third and Fourth year students taking Honours in English or in English plus another subject. *Third and Fourth year students in other categories must have the instructor's permission to take the course.*

3 hours.

Professor Martin Puhvel

- 305a. CHAUCER (Half course). A study of *The Canterbury Tales*, their sources and analogues. Robinson's text (the Student's Cambridge Edition of the Complete Works) is used.

First term: 3 hours.

Professor Joyce Hemlow

- 305b. CHAUCER (Half course). A study of the dream-vision poems and of the Troilus story.

Second term: 3 hours.

Professor Joyce Hemlow

310. MIDDLE ENGLISH (Full course). Studies in Middle English Literature (exclusive of Chaucer). The course is open to students who have taken either Old English or Chaucer.

3 hours.

Professor Martin Puhvel

- 315b. NON-DRAMATIC LITERATURE OF THE FIFTEENTH AND SIXTEENTH CENTURIES (Half course). Special emphasis is given to the development of poetic techniques and the growth of humanism.

Second term: 3 hours.

Professor Joyce Hemlow

- 318a. SIDNEY AND SPENSER (Half course).

First term: 3 hours.

Professor Joyce Hemlow

- 318b. MILTON (Half course). A study of *Paradise Lost*, *Paradise Regained* and *Samson Agonistes*.

Second term: 3 hours.

Professor A. E. Malloch

COURSES IN ENGLISH

320. ENGLISH LITERATURE IN THE SEVENTEENTH CENTURY (Full course).
3 hours.
Professor A. E. Malloch
- 322a. POETRY OF THE ROMANTIC PERIOD: 1780-1840 (Half course). A detailed study of selected poems by Blake, Wordsworth, Coleridge and Byron.
First term: 3 hours.
Professor A. Lucas
- 322b. POETRY OF THE VICTORIAN PERIOD: 1840-1890 (Half course).
Second term: 3 hours.
Professor A. Lucas
324. SHAKESPEARE (Full course). A detailed study of selected plays, none of which are on the reading-list for the Second year Shakespeare course. This may be taken as a continuation course following on English 200.
3 hours.
Professors Walker and Ritchie
325. ENGLISH DRAMA FROM THE BEGINNINGS TO 1642, EXCLUDING SHAKESPEARE (Full course).
3 hours.
Professor Curtis D. Cecil
330. ENGLISH DRAMA FROM 1660 TO THE PRESENT (Full course).
3 hours.
Professor Curtis D. Cecil
(Not given in 1960-61.)
331. CONTINENTAL EUROPEAN AND AMERICAN DRAMA FROM IBSEN TO THE PRESENT (Full course).
3 hours.
Professor Harry M. Ritchie
335. THE ENGLISH NOVEL FROM THE BEGINNINGS TO THE PRESENT TIME (Full course). This course includes some reference to foreign work and to related literary types.
3 hours.
Professor A. Lucas
- 336b. THE SHORT STORY (Half course). The history of the short story in English, with some reference to foreign work and to related literary types. Twentieth-century forms and techniques are emphasized.
Second term: 3 hours.
Professor Constance Beresford-Howe
340. STUDIES IN LITERATURE SINCE 1900 (Full course). Contemporary authors, English and American, with special emphasis on novelists and dramatists.
3 hours.
Professor H. G. Files
341. CANADIAN LITERATURE (Full course). The development of prose literature and poetry in Canada from the beginnings to the present time.
3 hours.
Professors H. MacLennan and L. Dudek
345. ENGLISH PROSE FROM BACON TO THE PRESENT (Full course). The purpose is to trace the development of English prose expression, to show how the powers of the language have become enlarged as writers have responded to the challenge of new ideas and new inventions in writing techniques.
3 hours.
Professor H. MacLennan

COMMERCE

- 355a. THE ART OF POETRY (Half course). A study of poetic forms and techniques. Though the course is intended for students of literature generally, the practising writer will find it useful; students are encouraged to submit work of their own for critical discussion in conference.

First term: 3 hours.

Professor L. Dudek

365. POETRY OF THE TWENTIETH CENTURY (Full course). A survey of recent poetry by British and American authors.

3 hours.

Professor L. Dudek

Texts: The collected poetry of W. B. Yeats, T. S. Eliot, Robert Frost, Ezra Pound, W. H. Auden, and Dylan Thomas.

370. CROSS-CURRENTS BETWEEN ENGLISH LITERATURE AND THE EUROPEAN LITERATURES IN THE 18TH CENTURY (Full course). This course deals with the influence of continental literature and criticism on the English neo-classicism of the 18th century, and with the influence of English literature and criticism on European writers from the time of Voltaire to the rise of Byronism. It includes reference to the works of French, German and Italian authors. A reading knowledge of French is a prerequisite.

3 hours.

Professor Slava Klima

(Not given in 1960-61.)

375. EUROPEAN HUMANISM IN THE 20TH CENTURY (Full course). A survey of the attempts of Rilke, Thomas Mann, Gide, Conrad, Malraux and other major writers to redefine humanism for our age. The texts are available in English translation, but a reading knowledge of French or German is desirable.

3 hours.

Professor Klima

(Not given in 1960-61.)

- 380a. BIBLIOGRAPHY (Half course). An introduction to the apparatus and methods of scholarship in literary studies. *Open to Honours students: others must have the instructor's permission to take the course.*

First term: Hours to be arranged.

Professor A. E. Malloch

395. CREATIVE WRITING—ADVANCED COURSE (Full course). An advanced course open to a limited number of undergraduate students who appear well qualified for mature creative writing. Application for permission to take this course should be made at the beginning of the session. *Registration is limited.*

Hours to be arranged.

Professor H. G. Files

COURSES IN GERMAN

GERMAN

FIRST YEAR

100. GERMAN LANGUAGE (Full course). Beginners' B.A., B.Com. Course.

3 hours.

Professors Meyer and Block

Texts: Curts, *Basic German*, 3rd ed. (Prentice-Hall); Goedsche-Glaettli, *Thomas Mann* (Amer. Book Co.).

INTRODUCTION TO GERMAN LITERATURE AND THOUGHT in English (Optional course for students of German 100 and any other students by special permission. It does not constitute a half course nor will there be an examination).

SECOND YEAR

Note: Students who intend to proceed to Course 210 from German 100 must have obtained a high Second Class and are required to read during the summer the following: Kästner, *Emil und die Detektive* (Holt). Those who intend to proceed to Course 300 from German 100 must have obtained a First Class and are required to study during the summer the following texts: Kästner, *Emil und die Detektive* (Holt); Storm, *Immensee*.

GERMAN CONVERSATION

Students who intend to continue German must attend a class in Oral German (one hour a week) until, in the Department's opinion, they have reached a satisfactory standard.

200. GERMAN LANGUAGE (Full course).

3 hours.

Professors Meyer and Block

Prerequisite: German 100 or Matriculation in German, or their equivalent.

Texts: Gorr, *Short Review Grammar* (Appleton-Century-Crofts); E. Meyer, *Akademische Freiheit* (Houghton-Mifflin); Kästner, *Emil und die Detektive* (Holt).

Private Reading: *Genialische Jugend* (Houghton Mifflin).

210. GERMAN LANGUAGE (Full course).

3 hours.

Professors Meyer and Reiss

Prerequisite: German 100 or Matriculation in German.

Texts: L. J. Russon, *Complete German Course for First Examinations* (Longmans, Green); L. W. Forster, *German Tales of Our Time* (Harrap); Lessing, *Nathan der Weise* (Harrap).

Private Reading: Storm, *Immensee*; Schnitzler, *Der blinde Geronimo und sein Bruder* (Heath).

COMMERCE

300. GERMAN LANGUAGE AND LITERATURE (Full course). No student may proceed directly from German 100 to German 300 unless he has completed the summer work as given above.

3 hours.

Professors Block and Reiss

Prerequisite: German 200 or 210.

Texts: L. J. Russon, *Complete German Course*; Goethe, *Egmont* (Holt); Goethe, *Urfaust* (Harper).

Private Reading: Thomas Mann, *Tonio Kroger* (Crofts); Grillparzer, *Der Arme Spielmann* (Inselbucherei No. 82).

For further information and additional courses see the Announcement of the Faculty of Arts and Science.

RUSSIAN

Students who take Russian in order to fulfil the Modern Language requirement for the B.Com. degree must take Russian 100 or 105 and Russian 200 or 205.

Students who take Russian as a Continuation subject must take Russian 100 or 105, 200 or 205, 300 and 400.

Classes in Russian conversation will be available.

FIRST YEAR COURSES

100. RUSSIAN LANGUAGE (Full course).

Reading, grammar, translation, oral practice.

3 hours.

Staff

Texts: G. A. Znamensky, *Conversational Russian* (Ginn); J. Z. Patrick, *Elementary Russian Reader* (Pitman).

No prerequisite.

105. RUSSIAN LANGUAGE. Advanced in the First year (Full course). This course is designed for students who already possess a certain competence in the Russian language.

3 hours.

Staff

Texts: G. A. Znamensky, *Conversational Russian* (Ginn); Birkett and Stryve, *Chekhov Selections* (Oxford).

Prerequisite: Permission of the instructor.

SECOND YEAR COURSES

200. RUSSIAN LANGUAGE (Full course). Reading, grammar, translation, oral practice.

3 hours.

Staff

COURSES IN RUSSIAN

Texts: Coulson and Duddington, *Russian Short Stories, 19th Century* (Oxford); A. Semeonoff, *A New Russian Grammar* (Dent).

Prerequisites: Russian 100 or equivalent.

205. RUSSIAN LANGUAGE. Advanced in the Second year (Full course). Syntax, translation, reading, conversation.

3 hours.

Professor Litwinowicz

Texts: Coulson and Duddington, *Russian Short Stories, 19th Century*, (Oxford); Baring and Costello, *The Oxford Book of Russian Verse*; A. Semeonoff, *A New Russian Grammar* (Dent).

Prerequisite: Russian 105 or equivalent.

Recommended Books for the First and Second year courses: O'Brien, *New English-Russian and Russian-English Dictionary* (Dover); Orfograficheskii, *Slovar' russkogo yazyka*, Moscow, 1959; Forbes, *The Russian Verb* (Oxford); Stilman, *Russian Verbs of Motion* (Kings Crown Press, New York); Patrick, *Roots of the Russian Language* (Pitman).

THIRD AND FOURTH YEAR COURSES

300. RUSSIAN LANGUAGE AND LITERATURE IN THE 19TH CENTURY (Full course).

Grammar, reading from selected authors, composition. Course will be conducted in Russian.

3 hours.

Professor Litwinowicz

Texts: I. A. Goncharov, *Oblomov*; I. S. Turgenev, *Fathers and Sons* (Cambridge); Baring and Costello, *The Oxford Book of Russian Verse*; B. Unbegaun, *Russian Grammar* (Oxford).

Private reading: Duddington and Gorodetzky, *Tolstoy's Selections* (Oxford).

Prerequisites: Russian 200 or 205, or permission of the instructor.

400. RUSSIAN LANGUAGE AND LITERATURE IN THE 20TH CENTURY (Full course).

It is intended to trace the development of the Russian novel and language after the October Revolution. The course will be conducted in Russian.

3 hours.

Professor Litwinowicz

Texts: M. A. Sholokhov, *And Quiet Flows the Don*; Ronald Hingley, Ed., *Soviet Prose* (Pitman).

Private reading: Boris Pasternak, *Doctor Zhivago* (Michigan University Press).

Prerequisites: Russian 300, or permission of the instructor.

Recommended Books for the Third and Fourth year courses. Smirnitsky, *Russko-Angliiskii Slovar'* (Moscow, 1958); Mueller, *English-Russian Dictionary* (Dutton); Ozhegov, *Slovar' Russkogo Yazyka* (Explanatory

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dictionary); Avanesov, *Russkoye literaturnoye udareniye i proiznosheniye* (Orthoepic dictionary); Preobrazhensky, *Etimologicheskii slovar' Russkogo yazyka* (Columbia); Borras and Christian, *Russian Syntax* (Oxford); Mirsky, *History of Russian Literature* (Knopf); Struve, *Soviet Literature* (Norman).

HISTORY

100. EUROPEAN CIVILIZATION SINCE THE ROMAN EMPIRE AND ITS EXPANSION OVERSEAS. *Professors C. C. Bayley, P. Zagorin and Mr. R. Vogel*

205. HISTORY OF COLONIAL EXPANSION.

Second year.

Professor J. I. Cooper

(*Not given in 1960-61.*)

206. HISTORY OF THE AMERICAS.

Second year.

Professor J. I. Cooper

210. HISTORY OF GREAT BRITAIN.

Second year.

Professor W. S. Reid

215. HISTORY OF EASTERN EUROPE.

Second, Third and Fourth years.

Professor Milos Mladenovic

305. HISTORY OF CANADA.

Third year.

Professor J. I. Cooper

310. THE RISE OF BRITISH INDUSTRIAL DEMOCRACY SINCE 1815.

Third or Fourth year.

Mr. R. Vogel

315a. THE SLAVS AND THE HABSBURG MONARCHY (Half course).

3 hours.

Professor Milos Mladenovic

315b. WAR AND SOCIETY IN EASTERN EUROPE (Half course).

3 hours.

Professor Milos Mladenovic

(*Save by special consent of the Department, this course is open only to students who have previously taken either History 215 or History 320.*)

320. THE HISTORICAL BACKGROUND OF CONTEMPORARY EUROPE.

Third and Fourth years.

Professor H. N. Fieldhouse

325. SOCIETY OF WESTERN EUROPE FROM THE RENAISSANCE TO THE EVE OF THE FRENCH REVOLUTION.

Third and Fourth years.

Professor P. Zagorin

326. TUDOR AND STUART ENGLAND.

Third and Fourth years.

Professor P. Zagorin

COURSES IN HISTORY AND PHILOSOPHY

400. HISTORICAL DEVELOPMENT OF THE INSTITUTIONS OF GREAT BRITAIN.
Fourth year. *Professor C. C. Bayley*

401. TECHNOLOGY AND SOCIETY IN MEDIEVAL AND MODERN EUROPE: A HISTORICAL SURVEY (Full course).
3 hours. *Professor C. C. Bayley*
(Not given in 1960-61.)

415. HISTORY OF SOVIET RUSSIA (Full course).
3 hours. *Professor Milos Mladenovic*
(Save by special consent of the Department, this course is open only to students who have previously taken either History 215 or History 320.)
(Not given in 1960-61.)

416. ECONOMIC HISTORY OF RUSSIA.
Fourth year. *Professor M. Mladenovic*
(Save by special consent of the Department, this course is open only to students who have previously taken either History 215 or History 320).

421. HISTORY OF DIPLOMACY, WITH SPECIAL REFERENCE TO BRITISH FOREIGN POLICY SINCE 1815.
Third, and Fourth years. *Professor H. N. Fieldhouse*
(Not given in 1960-61.)

For additional courses in History, see the Announcement of the Faculty of Arts and Science.

HISTORY AS A CONTINUATION SUBJECT

Students who wish to take History as a Continuation Subject must consult the Department as to their programme.

PHILOSOPHY

200. INTRODUCTION TO PHILOSOPHY. Second year (Full course). Special weekly conference groups will be held under the direction of Professor McKinnon, Mr. Gombay, Mr. McCall and Mr. Ross.

An introduction to the chief problems of Philosophy in connection with their development in Greek, Mediaeval, and more especially in modern times.

Lectures and conferences: 3 hours.

Professors T. G. Henderson and J. W. Miller

300. ETHICS. Second year (Full course). The main types of ethical theory.
Lectures and conferences: 3 hours. *Professor Alistair McKinnon*

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310. LOGIC AND SCIENTIFIC METHOD. (Full course.) Deductive logic: introduction to modern symbolic logic with emphasis upon applications. Inductive logic and scientific method: verification, probability, hypothesis, and related topics.
3 hours. *Professor J. W. Miller and Staff*

Prerequisite: Philosophy 200, except for Third and Fourth year students of science.

The class will be divided into two sections, designated as 310 I and 310 II.

320. AESTHETICS. (Full course.) A philosophical treatment of certain problems in the spheres of art and criticism. Among the subjects discussed will be: the nature of aesthetic experience and of the artistic object; the interpretation of a work of art; artistic form, the criteria of aesthetic value. Illustrations and examples will be drawn from a variety of different arts, including music and poetry.
3 hours. *Mr. R. S. McCall and Mr. J. D. Ross*

Prerequisite: At least one full course in Philosophy. With the consent of the lecturer, special students may be permitted to take this course without this requirement being fulfilled.

330. PHILOSOPHY OF RELIGION. (Full course.) A discussion of the main problems of the philosophy of religion as considered in the works of various philosophers.
Prerequisite: Philosophy 200.

340. PHILOSOPHY OF HISTORY. (Full course.) An examination of the nature of historical knowledge. Basic concepts and their philosophical implications. The logical and metaphysical character of modern interpretations of the meaning of history.
Prerequisite: Philosophy 200. *Professor Cecil Currie*

350. GREEK PHILOSOPHY. Third and Fourth years (Full course). The theory of knowledge and metaphysics of Plato and Aristotle.
3 hours. *Professor T. G. Henderson*
Prerequisite: Philosophy 200 or 300.

360. MODERN PHILOSOPHY. (Full course.) Main problems of modern philosophy, with special reference to the development from Descartes to the present time.
Prerequisite: Philosophy 200. *Professor Cecil Currie*

COURSES IN FRENCH

370. MEDIAEVAL AND RENAISSANCE PHILOSOPHY. (Full course.) Main problems of mediaeval philosophy in their development from St. Augustine to the Fifteenth Century.

3 hours.

Professor Raymond Klibansky

Prerequisite: Philosophy 200 and 350; or consent of lecturer.

400. ETHICS AND PHILOSOPHY OF POLITICS. (Full course.)

3 hours.

Professor Raymond Klibansky

Prerequisite: Philosophy 300.

410. PROBLEMS OF LOGIC, EPISTEMOLOGY, AND METAPHYSICS. (Full course.)

3 hours.

Professors J. W. Miller and T. G. Henderson

Prerequisite: Philosophy 200, 310 or 350, 360.

For titles of textbooks, see Announcement of Faculty of Arts and Science.

CONTINUATION COURSES

Students interested in studying Philosophy in conjunction with other subjects are advised to take their courses in Philosophy in the sequences indicated below in connection with the other studies.

1. Philosophy with one or more studies in the social sciences, e.g., economics, history, politics, psychology, and sociology:

Philosophy 200, 300, 310, 330, 350, 370, 400.

2. Philosophy, with one or more studies in the natural sciences, e.g., biochemistry, botany, chemistry, genetics, physics, zoology:

Philosophy 200, 310, 360, 410.

3. Philosophy with studies in English or Foreign Literature:

Philosophy 200, 300, 320, 330, 350, 360, 370.

ROMANCE LANGUAGES

FRENCH

Students registering for First year French have a choice of two courses.

A. *French 11 Advanced*

This course is open to:

- (a) students whose first language is French.

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- (b) those English-speaking students who have obtained at least 80% in their Junior School Certificate or High School Leaving Certificate or the equivalent diploma which secured their admission to the University.

All students who have registered for French 11 will undergo a test at the beginning of the term and those who do not satisfy the requirements will automatically revert to French 13 (Regular).

B. *French 13 Regular*

This course is designed (a) to supplement previous training in oral comprehension, grammar and vocabulary so that students can proceed to further courses with an adequate linguistic equipment (b) to teach the basic facts of French civilization which underlie the development of French literature and fine arts.

11. ADVANCED. General survey of French literature of the 18th and 19th centuries; French composition. (Full course)

3 hours. *Professor Hélène Larivière and other members of the Department*

Texts: Lévêque, *Histoire de la Civilisation française* (Revised Edition) (Holt); Saint-Exupéry, *Vol de Nuit* (Harper); Husson, *La cuisine des anges* (Harper); René Daudon, *French in Review* (Harcourt, Brace and Company).

13. REGULAR (Civilization Section). General survey of French civilization (Geography, History, Arts, Science, Economics and Politics); French Composition. (Full course)

3 hours. *Professor Romer and other members of the Department*

Texts: Carlut-Brée, *France de nos jours* (Macmillan); Torrens-Sanders, *Contes de nos jours* (Copp Clark); Bond, *Hier* (Heath); Sonet-Shortliffe, *Review of Standard French* (Harcourt, Brace).

Additional reading: D'hôtel, *L'île aux oiseaux de fer* (Holt).

Students are required to possess a good French-English and English-French Dictionary. Harrap's Shorter French-English and English-French Ed. by J. E. Mansion, M.A. is recommended.

SECOND YEAR COURSES

21. SURVEY OF FRENCH LITERATURE FROM THE MIDDLE-AGES TO THE 18TH CENTURY. French composition. (Full course)

3 hours.

Professor Reverchon

COURSES IN FRENCH

Prerequisite: French 11, or permission of the Chairman of the Department.

Texts: Castex and Surer, *Manuel des Etudes littéraires françaises*, vol. 1 (Moyen-Age, XVIe et XVIIe Siècles) (Hachette); Bradley-Michell, *Eight Centuries of French Literature* (Appleton-Century-Crofts); Molière, *L'Avare* (Classiques France, Hachette); Racine, *Andromaque* (Classiques France, Hachette); Whitmarsh-Jukes, *Advanced French Course* (Longmans).

23. INTRODUCTION TO FRENCH LITERATURE FROM THE MIDDLE-AGES TO THE 20TH CENTURY THROUGH THE READING OF REPRESENTATIVE MAJOR WORKS; French composition. (Full course)

3 hours. *Professors Champigneul, d'Hauteserve, Rigault and Romer; MM. Jackson and Penot*

Prerequisite: French 13, or the equivalent.

Texts: McGill University French Staff, *Précis de Littérature française* (McGill Book Store); *La farce de Maître Pathelin*; Molière, *L'Avare*; Voltaire, *Zadig* (all in Petits Classiques Larousse); Balzac, *Le père Goriot* (Ed. R. L. Sanderson, Heath); Sartre, *Les mains sales* (Livres de poche); Whitmarsh-Jukes, *Advanced French Course* (Longmans).

Readings: Molière, *Le bourgeois gentilhomme*; Flaubert, *Trois contes* (both in Petits Classiques Larousse).

THIRD YEAR COURSES

31. FRENCH LITERATURE OF THE 17TH CENTURY. (Full course.)

3 hours. *Professor Hélène Larivière*

Prerequisite: French 21 or 23.

Texts: Castex and Surer, *Manuel des Etudes littéraires françaises: XVIIe siècle* (Hachette); Peyre and Grant, *Seventeenth Century French Prose and Poetry* (Heath); Seronde and Peyre, *Nine Classic French Plays* (Heath).

Readings: Corneille, *Le Cid* and *Horace*; Racine, *Andromaque* and *Phèdre*; Molière, *L'Ecole des Femmes* and *Tartuffe*; Pascal, *Pensées*; Bossuet, *Oraison Funèbre d'Henriette d'Angleterre*; Mme de Sévigné, *Lettres choisies*; La Fontaine, *Fables choisies*; Mme de La Fayette, *La Princesse de Clèves*.

32. FRENCH LITERATURE OF THE 18TH CENTURY. (Full course.)

3 hours. *Professor Marie-Thérèse Reverchon*

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Prerequisite: French 21 or 23.

Texts: Castex and Surer, *Manuel des Etudes littéraires françaises: XVIIIe siècle* (Hachette); A. Schinz, *Eighteenth Century French Readings* (Holt); Marivaux, *Le jeu de l'amour et du hasard* (Heath); Voltaire, *Candide* (Holt); Beaumarchais, *Le Barbier de Séville* (Holt).

Readings: Lesage, *Gil Blas* (Extraits); Montesquieu, *Les Lettres persanes*; Voltaire, *Les Lettres philosophiques*; Diderot, *Le Neveu de Rameau*; Beaumarchais, *Le Mariage de Figaro*; Rousseau, *Confessions* (Extraits).

FOURTH YEAR COURSES

41. MODERN FRANCE—GEOGRAPHICAL OUTLINE—POLITICAL, SOCIAL, AND ECONOMIC ASPECTS OF FRENCH LIFE, SINCE 1870. (Full course.) (*Open also to Third year students with a good command of spoken French.*)
3 hours. *Professor J. E. L. Launay*

Text: Launay, *La France depuis 1944* (McGill Bookstore).

N.B. An ability to take notes in French is essential for successful completion of the course.

42. LITERATURE AND SOCIAL IDEAS IN THE 19TH CENTURY. (Full course.) (*Open to Third year students also.*)
3 hours. *Professor Louis d'Hauterserve*

43. FRENCH LITERATURE OF THE 19th AND 20th CENTURIES. (Full course.)
3 hours. *Dr. H. Jones*

Prerequisite: French 31 or 32.

Texts: Penguin Book of 19th Century French Verse; Musset, *Lorenzaccio* (Petits Classiques Larousse); Balzac, *Le Père Goriot* (Nelson); Flaubert, *Madame Bovary* (Garnier); Zola, *Germinal* (Livres de poche); Gide, *La Porte Etroite* (Mercure de France); Castex-Surer, *Manuel des Etudes littéraires françaises: XIXe Siècle* (Hachette).

FRENCH CONTINUATION:

Second year: French 21 or 23.

Third year: French 31 or 32.

Fourth year: French 41, 42, or 43.

COURSES IN SPANISH AND ITALIAN

SPANISH

11. FIRST YEAR. (Full course)
Grammar, reading and dictation, oral exercises and composition.
3 hours. *Professor Robina E. Henry and Staff*
21. SECOND YEAR. (Full course)
Further readings in literature, translation, free composition, conversation.
3 hours. *Professors R. E. Henry and G. F. Stegen*
31. THIRD YEAR. (Full course)
Novelists of 19th Century. Advanced composition, translation, conversation.
3 hours. *Dr. Monica Harvey*
32. SPANISH LITERATURE. Third year (Full course). A "great writers" course covering the masterpieces of Spanish literature.
3 hours. *Professor L. B. Harrop*
41. THE GOLDEN AGE. Fourth year (Full course).
3 hours. *Professor L. B. Harrop*
43. SPANISH-AMERICAN LITERATURE. Fourth year (Full course).
3 hours. *Dr. Ruiz-Fornells*
Open to Third year students with permission of the Department.
For titles of textbooks, see Announcement of Faculty of Arts and Science.

CONTINUATION IN SPANISH:

Second year: Spanish 21.

Third year: Spanish 31.

Fourth year: Spanish 41 or 43.

ITALIAN

Two sets of courses are offered in Italian literature:

(a) *Courses given in Italian* (Courses 31 and 41): Intended for B.A. students taking Italian as a continuation subject, Italian 11 and 21 (or their equivalent) will be prerequisite for these courses.

(b) *Courses given in English* (Courses 25a and 25b): These are open to all students, and do not require a knowledge of the Italian language.

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11. FIRST YEAR. (Full course.) Grammar, reading, oral exercises, and composition.

3 hours. *Professor A. D'Andrea and Miss Stewart*

Texts: Roncari-Brighenti, *La Lingua Italiana insegnata agli stranieri* (Mondadori); Bormioli-Pellegrinetti, *Lecture Italiane per Stranieri* (Mondadori); Pinocchio (Heath); *Il "Piccolo Orlandi," Dizionario Italiano Inglese e Inglese Italiano* (Signorelli).

21. SECOND YEAR. (Full course.) Translation, free composition, conversation, introduction to Italian literature.

3 hours. *Professor A. D'Andrea and Miss Stewart*

Texts: Roncari-Brighenti, *La Lingua Italiana insegnata agli stranieri* (Mondadori); Bormioli-Pellegrinetti, *Lecture Italiane per Stranieri* (Vol. II) (Mondadori); Pirandello, *Enrico IV, Sei Personaggi in cerca di Autore* (Mondadori).

31. THIRD YEAR—ITALIAN PROSE FROM THE ORIGINS TO OUR TIMES. (Full course.) Readings from selected Italian authors; Italian conversation, composition and elementary stylistics.

3 hours. *Professor A. D'Andrea*

Texts: E. Danadoni, *Breve Storia della Letteratura Italiana* (Signorelli); A. Manzoni, *I Promessi Sposi* (Sansoni); A. Fogazzaro, *Piccolo Mondo Antico* (Mondadori); G. Verga, *I Malavoglia* (Mondadori); G. Morpurgo, *Le più belle Novelle Italiane*; Migliorini-Chiappelli, *Elementi di Stilistica* (Le Monnier).

41. FOURTH YEAR—ITALIAN POETRY FROM THE ORIGINS TO OUR TIMES. (Full course.) Readings from selected Italian authors; Italian conversation, composition and stylistics.

3 hours. *Professor A. D'Andrea*

Texts: E. Donadoni, *Breve Storia della Letteratura Italiana* (Signorelli); *The Oxford Book of Italian Verse* (The Clarendon Press); G. Tomasi di Lampedusa, *Il Gattopardo* (Feltrinelli); E. Lussu, *Marcia su Roma e dintorni* (Einaudi); C. Levi, *Cristo si è fermato a Eboli* (Einaudi); Migliorini-Chiappelli, *Elementi Di Stilistica* (Le Monnier).

- 25a. ITALIAN LITERATURE: DANTE AND THE MIDDLE AGES. (Half course.)

Lectures will be given in English. Students are not required to take the language courses as prerequisites.

First term: 3 hours.

Professor D'Andrea

Texts: *The Portable Dante* (The Viking Press); Dante, *The Inferno, The Purgatorio and the Paradiso* (Dent); E. H. Wilkins, *A History of Italian Literature* (Harvard University Press).

COURSES IN ACCOUNTING

Reference: H. O. Taylor, *The Medieval Mind* (Macmillan); C. S. Lewis, *The Allegory of Love* (Oxford); B. Croce, *The Poetry of Dante* (Allen & Unwin); U. Cosmo, *A Handbook to Dante Studies* (Oxford).

- 25b. ITALIAN LITERATURE: THE RENAISSANCE AND MACHIAVELLI. (Half course.)
Lectures will be given in English. Students are not required to take the language courses as prerequisites.

Second term: 3 hours.

Professor D'Andrea

Texts: Machiavelli, *The Prince and Other Works*, trans. by Allan H. Gilbert (Farrar, Straus); E. H. Wilkins, *A History of Italian Literature* (Harvard University Press).

Reference: *The Renaissance Philosophy of Man* (Petrarca, Valla, Ficino, Vico, Pomponazzi, Vives), edited by Cassirer, Kristeller and Randall (Univ. of Chicago Press); W. K. Ferguson, *The Renaissance in Historical Thought* (Houghton Mifflin); L. Einstein, *The Italian Renaissance in England* (Columbia University Press); F. Chabod, *Machiavelli and the Renaissance* (Bowes & Bowes); M. Praz, *Machiavelli in England* (Milford).

Italian 25a and 25b may be taken separately or in combination. If taken in combination, they offer an opportunity to study such major writers as Dante, Petrarca, Boccaccio and Machiavelli. Special emphasis will be placed on the cultural contacts of England and Italy during the Middle Ages and the Renaissance.

SECTION III

OPTIONS IN COMMERCE AND THE SOCIAL SCIENCES

ACCOUNTING

(Professor Kenneth F. Byrd - Adviser)

301. ACCOUNTING AND AUDITING. Third year (Full course). More advanced treatment of the work of the first two years. Consignment accounts; branch accounts; statement analysis; statements of source and application of funds; elementary treatment of amalgamations and reconstructions of limited companies. Definition of auditing; accounting and auditing distinguished; objects and advantages of different classes of audit. Detailed consideration of auditing theory; internal check and the auditor; the rights, duties, and responsibilities of auditors with reference to leading decisions in the courts; the discovery of errors and fraud; requirements under the Dominion and Quebec Companies Acts; divisible profits and

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dividends. Audit procedure at all stages, vouching and verification, checking the postings, auditing the final accounts; programmes and working papers, audit certificate and reports.

Reference is made throughout to bulletins of the Canadian Institute of Chartered Accountants, in relation also to those of the accountancy profession in the United States and Great Britain.

Professors K. F. Byrd and D. R. Patton

401. ACCOUNTING, AUDITING AND INVESTIGATIONS. Fourth year (Full course). Revision of the work of previous years. Joint ventures. Instalment sales. Preparation of consolidated accounts of Holding and Subsidiary Companies including subsidiaries. More advanced treatment of amalgamations (consolidations) and absorptions (mergers) including inter-company holdings; accounting for capital reorganization and reconstruction. Advanced Accounting Theory in general.

More advanced auditing. Investigations: for fraud; certification of profits for prospectus purposes; sale of business by sole traders, partnerships, limited companies, with valuation of goodwill; valuation of shares; schemes of conversion to limited liability; schemes of amalgamation (consolidation) and absorption (merger); pooling schemes; schemes of reorganization and reconstruction.

Professor K. F. Byrd

- 402 (a) COST ACCOUNTS AND BUDGETARY CONTROL. Fourth year (Half course). COST ACCOUNTS: Definition of cost accounting, its aims and objects; elements of cost, accounting for the purchase, storage, and issue of materials; accounting for labour; schemes of remuneration of labour including incentive schemes, co-partnership and profit-sharing; accounting for overheads, with methods of apportionment to departments and production; double entry cost accounting; job costs; process costs; estimating cost systems; standard costs and accounting for variances; closing the accounts at balance sheet date, preparation of operating statements.

BUDGETARY CONTROL: Preparation of the budget, including flexible budgets.

Professor D. R. Patton

- 402 (b) INCOME TAX, BANKRUPTCY AND LIQUIDATION, EXECUTORSHIP ACCOUNTS. Fourth year (Half course).

Income Tax: Principles and legal provisions (federal) and their application to the problems of assessment of individuals, partnerships and limited companies.

Particular attention to the loss carry-back and carry-forward provisions, the treatment of capital cost allowances, the avoidance of double taxation of undistributed income, personal corporations.

ACTUARIAL MATHEMATICS

Payment of tax by individuals, partnerships and limited companies.

Objections and appeals: the income tax special court and higher courts.

Bankruptcy and Liquidation: Receiver's accounts: the marshalling of assets and liabilities; the statement of affairs; the deficiency account; statement of realization and liquidation; the duties of the trustee.

Executorship Accounts: Accounting for capital and income in deceased estates; statements of charge and discharge; calculation of Canadian estate tax.

Professor K. F. Byrd

ACTUARIAL MATHEMATICS

(Professor H. Tate - Adviser)

323. ELEMENTARY STATISTICS (Full course). Use and misuse of Statistics; Elementary probability and probability distributions; the normal distribution; significance tests; methods of classifying data; sampling from the normal; confidence regions.

3 hours.

Professor Guttman

Prerequisite: Mathematics 224.

Texts: S. S. Wilks, *Elementary Statistical Analysis* (Princeton); Wallis and Roberts, *Statistics: A New Approach* (Free Press).

329. THEORY OF INTEREST AND INSURANCE (Full course). Simple and compound interest, discount, annuities certain, sinking funds, bonds, mortgage amortization, depreciation. Mortality tables; Single-life annuities and assurances; premiums, reserves, dividends, basic contract provisions.

3 hours.

Professor Tate

Prerequisite: Mathematics 224.

330. FURTHER CALCULUS AND DIFFERENTIAL EQUATIONS (Full course). Hyperbolic functions, partial differentiation, infinite series, multiple integrals, differential equations. Solution of ordinary differential equations; linear differential equations, especially with constant coefficients; solution by series.

3 hours.

Professor Solin

Prerequisite: Mathematics 224.

435. HIGHER ALGEBRA (Full course). The number system; introduction to the concepts of group, ring and field; polynomials and theory of equations; matrices and determinants; systems of linear equations.

3 hours.

Professor ———

COMMERCE

Prerequisite: Mathematics 224.

Texts: Marie J. Weiss, *Higher Algebra for the Undergraduate* (John Wiley and Sons, Inc.); Kemeny, Snell and Thompson, *Introduction to Finite Mathematics* (Prentice-Hall).

443. METHODS OF NUMERICAL ANALYSIS (Full course). Approximation methods for solving algebraic and transcendental equations, solution of systems of linear equations, inversion of matrices, computation of eigen values and eigen vectors of matrices, orthogonal functions.

2 hours and laboratory.

Professor Schwerdfeger

Prerequisites: Mathematics 224 and 330.

450. THEORY OF LIFE CONTINGENCIES (Full course). Finite Differences. Theory of interest. Single and Multiple Life Functions.

3 hours.

Professor Ritcey

Prerequisites: Mathematics 224, 323, 330 (which may be taken concurrently).

Text: C. W. Jordan, *Life Contingencies* (Society of Actuaries).

MANAGEMENT AND MARKETING

(Professor W. H. Pugsley - Adviser)

301. ELEMENTS OF MARKETING. Third year (Full course). An introductory study of the commercial distribution of goods and services. The course examines organization for and methods of distributing industrial and consumer goods and services with particular attention to product policy (brands, new introductions), channels of distribution (selection, discount structure), and selling (promotion, organization, pricing, sales programs). The course includes an appraisal of distribution costs in general, also of trends in marketing and trends in legislation affecting marketing.

3 hours.

Professor W. H. Pugsley

360. INTRODUCTION TO BUSINESS ADMINISTRATION. Third year (Full course). Nature, variety and scope of business; risks and the role of management; legal structure of the firm; the board of directors and trusteeship; determination of objectives and policy-making; internal organization and the delegation of authority; plant location, functional and line production; marketing objectives and channels of distribution; budgets and business finance; the role of research; coordination and control; personnel, social obligations of business and relations with government. Attention will

also be given to business case material intended to help the student to develop analytical ability, particularly for business report writing, and decision-making skill.

3 hours.

Professor W. H. Pugsley

460. PROBLEMS IN BUSINESS POLICY. Fourth year (Full course). Selected business case problems embracing the top management viewpoint: problems, policies, plans and personalities; sizing up situations; formulating policies and planning programs of action; organizing administrative personnel and putting plans into action; control, day-to-day administrative problems, follow-up and reappraisal. The problems are mostly as seen from the area where objectives are set for the company as a whole, and departmental policies and activities are coordinated. Emphasis is placed on the overall point of view to bring out the importance of the firm's choice of basic objectives, and how each section or department of a business needs to be managed to make the most effective contribution to these objectives.

Prerequisite: Introduction to Business Administration 360.

3 hours.

Professor W. H. Pugsley

FINANCE

(Professor E. W. Kierans - Adviser)

421. PUBLIC FINANCE. Third or Fourth year (Full course). A seminar course divided into three parts. 1. The theory of public finance. 2. A study of Canadian public finance at the federal, provincial and municipal levels. 3. Special problems of Canadian public finance. Emphasis will be placed on Part 3, which will include consideration of such topics as tax-rental agreements, regional redistribution of income by provincial and federal governments, the effects of the Canadian tax structure on business, and the problem of stabilizing employment in the Canadian federation.

3 hours.

Professor D. E. Armstrong

424. INTERNATIONAL TRADE AND FINANCE. Third and Fourth year (Full course). 1. Volume and composition of international trade; international commodity markets; international money and capital markets; dynamics of trade and investment. 2. International analysis and international trade; international income flows and the mechanism of adjustment; international income flows and the level of economic activity; international trade and the international allocation of resources; the distribution of income under free and restricted trade; the gains from free and restricted trade; the international spread of income changes. 3. Ends of international economic policy; post-war recovery programmes; international

COMMERCE

monetary funds, and international monetary and exchange-rate policy; tariffs, trade agreements, and the struggle for multilateralism; the problems and possibilities of international investment; direct and portfolio; Export-Import Bank; International Bank; future of private investment and multilateral trade.

Dr. Pal

Prerequisite: Economics 321.

425. INVESTMENT ANALYSIS AND CORPORATION FINANCE. Fourth year (Full course). Part I—The nature of investment; capital markets; investment funds; classes of securities; concepts of income, risk, value and appreciation; analysis of financial statements; stock market; investment policy. Part II—Forms of business organization; growth of the corporation; the managerial revolution; sources of funds; management of fixed and working capital; ratio analysis; expansion, reorganization and valuation.

3 hours.

Professor E. W. Kierans

GEOGRAPHY

(Professor F. K. Hare - Adviser)

N.B. *The first digit of each course number shows the academic year for which the course is mainly designed. Students in other years may, however, register for any course provided (i) that they have the prerequisites, and (ii) that general registration requirements are fulfilled.*

111. INTRODUCTION TO HUMAN GEOGRAPHY (Full course). The basic principles of geography illustrated from appropriate parts of the world. The major geographical regions of the earth, the resources, human societies and industries characteristic of each. Geographical aspects of international relations.

3 hours.

Professor Lloyd

(In Arts Division) *No prerequisite.*

212. WORLD ECONOMIC GEOGRAPHY (Full course). The relations of people, space, resources, culture and technology. Appraisal of agricultural and industrial resources. The major economic activities and agricultural and industrial regions of the world. Types and patterns of transportation and world trade.

3 hours.

Professor Hills

(In Arts Division) *Prerequisite:* Geography 111 or 121.

311. NORTH AMERICA. (Full course.) Canada and the United States are divided into a small number of natural regions. In each region the physical environment as a background to man's development is first studied. Then

COURSES IN GEOGRAPHY AND INDUSTRIAL RELATIONS

in turn, occupation by Indian and European peoples is discussed, leading up to an examination of the present cultural landscape. The part played by the region in the life of the country and some of its problems are analysed.

3 hours.

Mr. G. Michie

(In Arts Division) *Prerequisite:* Geography 211.

314. THE HUMID TROPICS (Full course). A comparative regional study of the humid tropical environment with special emphasis on Latin America and the Caribbean. A study of indigenous economies; expansion of mid-latitude nations and colonialism. Present day problems of overpopulation and underdevelopment. Agricultural and industrial potentialities.

Professor T. L. Hills

411. ECONOMIC GEOGRAPHY (Full course). The influence of geographical factors on economic activity. A functional appraisal of resources both industrial and agricultural; the demands made upon these resources in the past. The location of industry especially the iron and steel industry. The origins and development of modern agriculture. Crops and agricultural practices in the major agricultural regions of the world. The role of the forests and marine resources in the subsistence economies.

3 hours.

Professor T. L. Hills

(In Arts Division) *Prerequisite:* One of Geography 121 or 211 or Geology 121.

415. POLITICAL GEOGRAPHY (Full course). A study of geographical environments and political groups, the development of states and nations under the major headings of size, shape, situation, boundaries, and location in a world of which the locational geography is being revolutionized by air transport. The theories of Ratzel, Mackinder, Haushofer, Spykman and others are used to illustrate politico-geographic strategy. Europe and Asia are examined by regions, and as divided by ideologies and as a whole, in the wider setting of the new-power-age world of today.

3 hours.

Mr. G. Michie

(In Arts Division) *Prerequisite:* Geography 211.

INDUSTRIAL RELATIONS

(Professor H. D. Woods - Adviser)

341. LABOUR ECONOMICS AND INSTITUTIONS. Third year (Full course). The first half of the course will deal with the origins of labour problems in modern industrial organizations, trade unions, co-operative societies,

COMMERCE

credit unions, labour political movements, labour legislation and governmental organizations in the labour field. The second half will apply economic theory to a number of the principal issues in labour relations; it will include the theory of wages and employment and the impact of unions.

3 hours.

Professors Woods and Ostry

441. INDUSTRIAL RELATIONS. Third and Fourth year (Full course). An introduction to the problems of employer-employee relations, including the management of personnel, legislation, employee organizations, and the State function and public interest in industrial relations.

3 hours.

Professor H. D. Woods

442. COLLECTIVE BARGAINING. Fourth year (Full course). A seminar course involving an intensive study of collective bargaining institutions and techniques, grievance procedures, law and the state machinery for industrial relations. The course covers trade unionism, employers' associations, collective agreements, negotiations, the content of such agreements, conciliation, and arbitration. Experience in other industrial countries is also examined.

Students are admitted only by permission of the instructor.

3 hours.

Professor H. D. Woods

N.B.—Students who have taken Psychology 21 in their Second year and who are following the Industrial Relations concentration may substitute approved courses in Psychology or Sociology for Economics 412, Commercial Law or Economics 361.

PSYCHOLOGY

(Professor E. C. Webster - Adviser)

Second year

21. INTRODUCTION TO PSYCHOLOGY (Full course). A biologically oriented outline of the modern approach to psychology.

2 hours and one weekly conference.

Professors D. O. Hebb and M. Stern

Third year

35. PERSONALITY AND ITS SOCIAL CONTEXT (Full course). An introductory study of both personality and social psychology which treats the nature and development of personality and stresses its social determinants.

3 hours.

Professor V. Douglas

PUBLIC ADMINISTRATION

Fourth year

42. SOCIAL PSYCHOLOGY (Full course). An integrated study of theory of social psychology; social aspects of general psychology; nature and effects of group memberships; social attitudes and motives, their measurement and modification.

3 hours.

Professor W. E. Lambert

47. INDUSTRIAL AND COUNSELLING PSYCHOLOGY (Full course). A critical survey of the applications of psychology to business, industry and human relations with particular reference to the empirical basis of personnel selection, training, and counselling.

3 hours.

Professor D. Smith

Prerequisites: Two previous full courses in Psychology (It is recommended that Psychology 35 be included in these).

Students in Commerce desiring to prepare for a two year M.Sc. (Applied) degree course in personnel and industrial psychology should consult Professor Webster prior to registering in Fourth year.

PUBLIC ADMINISTRATION

(Professor J. R. Mallory - Adviser)

- 211G. COMPARATIVE GOVERNMENT. Second year (Full course). An Analysis of the basic concepts of Political Science, with illustrations drawn mainly from the experience of constitutional and dictatorial government as practised in certain modern states.

3 hours.

Professor K. B. Callard

- 325b. THE GOVERNMENT OF THE UNITED STATES. Third or Fourth year (Half course). A study of the Constitution, the political institutions, and the working of Congressional Government in the United States.

Second term: 3 hours.

Professor K. B. Callard

331. (Economics) ECONOMIC POLICY. Third and Fourth year (Full course). A study of governmental economic policy in its political and administrative setting. Topics to be discussed will include monetary-fiscal policy, commercial policy, labour and social security, and economic planning. Canadian aspects of these problems will be stressed.

3 hours.

Professors Irving Brecher and S. Ostry

COMMERCE

Prerequisites: Economics 211C, G, or H, and Political Science 211G or H or 212. This course may be taken for continuation in Political Science.

- 335a. (Economics) MONOPOLY, COMPETITION, AND PUBLIC POLICY. Third and Fourth year (Half course). A study of the structure and performance of industrial markets, with particular emphasis on the problems of maintaining effective competition. Canadian, American and British experience will be examined. Readings will cover leading law cases, as well as relevant economic literature.

(Not given in 1960-61.)

341. PUBLIC ADMINISTRATION. Third and Fourth year (Full course). A study of the machinery of government, with examples drawn mainly from Canada, the United States, and the United Kingdom. The increasing size and complexity of modern government; the problem of bureaucracy; central control of policy; the civil service; other agencies of government, regulatory and commercial; the legislature and the administration; the courts and the administration; public control and accountability.

2 hours and conference.

Professor K. B. Callard

(Not given in 1960-61.)

351. GOVERNMENT OF CANADA. Third and Fourth year (Full course). The working of parliamentary federalism in Canada. The problems of federal-provincial relations; the structure of parliamentary government; the evolution of national status.

3 hours.

Professor J. R. Mallory

SOCIOLOGY AND ANTHROPOLOGY

(Professor David N. Solomon - Adviser)

210. INTRODUCTION TO SOCIOLOGY. Second year (Full course). A general introduction to sociological theory and the analysis of groups in modern society. The course covers comparative cultures, the social development of the individual, ethnic and class groupings, characteristics of urban life, social change, and institutional structures.

3 hours.

301. ANALYSIS OF INDUSTRIAL SOCIETIES. Third year (Full course). Comparative treatment of the social systems of such modern industrial societies

SOCIOLOGY AND ANTHROPOLOGY

as the United States, Soviet Russia, England, Japan, and Canada. Categories of analysis include kinship, occupation, property, stratification, the organization of authority and major values.

3 hours.

Professor Howard E. Roseborough

302. MINORITY GROUPS AND THE COMMUNITY. Third year (Full course). The rise of modern urbanism; patterns and theories of urban growth; the participation of minority groups in urban institutions; the relation of minority groups to the class and caste structure; problems of upward and downward mobility; dominant group attitudes and ideologies concerning minority groups; the effect of minority group membership on the individual.

3 hours.

Professor Aileen D. Ross

304. TECHNIQUES OF SOCIOLOGICAL RESEARCH. Third year (Full course). An introduction to the practical and theoretical problems of sociological research. Among the topics discussed are the formulation of research problems, the selection of samples, and the analysis and interpretation of data. Among the techniques are observation, interviewing, and questionnaire construction.

3 hours.

Professors Howard E. Roseborough and David N. Solomon

402. SOCIOLOGY OF WORK. Fourth year (Full course). Work will be considered from two points of view: (A) The professions and other specialized occupations: occupational choice and mobility; types of careers; problems of achieving conformity to occupational norms; professional and trade associations; self-involvement in an occupation. (B) Industrial and other work organizations: formal and informal organization; roles of managers, executives, technical specialists, foremen, and workers; the concept and dynamics of bureaucracy; industry and society.

3 hours.

Professor David N. Solomon

- 411b. SOCIAL STRATIFICATION. Fourth year (Half course). The theory of caste and class divisions in modern society; the structure of class groups in the United States and Canada; the criteria of rank and the symbols associated with rank; the relationship between occupation, education, and class position; problems of upward and downward mobility.

3 hours.

Professor Aileen D. Ross

(Not given in 1960-61.)

- 440b. POPULATION AND MIGRATION. Fourth year (Half course). Populations and their composition; age, sex, and language groupings; birth rates,

COMMERCE

death rates, and population growth; the structure of the labour force, and changes therein; international migration, domestic migration, and the forceful transfer of populations; immigration policies. Major emphasis on the Canadian scene.

3 hours.

Professor Howard E. Roseborough

(Not given in 1960-61.)

SCIENCE IN ECONOMIC LIFE

This course is designed to give the student an understanding of the impact that science and technology has had upon economic life and of the manner in which science and technology can be utilized to man's advantage.

SCIENCE IN ECONOMIC LIFE (Chemistry 70) — (Full course).

Some of the principal topics to be considered are the following: the special character of science, pure and applied; the general history of science and technology in Western Europe and North America; a detailed history of an applied science (chemistry) in Canada; the role of science in providing the necessities of life; future prospects for novel materials and power sources; role of research and development in commercial enterprises; patents; economic factors affecting the viability of manufacture, with particular reference to the Canadian chemical industry.

2 hours.

Professor Nicholls

Text: Selected readings.





McGill University



Montreal

Faculty of Engineering

Including the School of Architecture

1960-1961

PUBLICATIONS

The following official publications are issued by the University and may be obtained from the Registrar's Office.

Announcements of Faculties and Schools as follows:

General Announcement

School Certificate Examinations

Scholarships, Bursaries, and Loan Funds

Faculty of Arts and Science (Degrees in Liberal Arts and in Pure Science. There is a separate Announcement for the School of Commerce.)

Faculty of Medicine

Faculty of Medicine Postgraduate Courses

Faculty of Dentistry

Faculty of Engineering (Degrees in Engineering and in Architecture.)

Faculty of Law

Faculty of Music

Faculty of Divinity

Faculty of Graduate Studies and Research

School of Commerce

Institute of Education

Library School

School for Graduate Nurses

School of Physical and Occupational Therapy

School of Social Work

Macdonald College (Faculty of Agriculture, and School of Household Science.)

French Summer School

Extension Courses

The Directory of Staff (University administrative officers, standing committees, and officers of instruction. Limited distribution.)

The Calendar (Available for distribution only to libraries and officials of certain institutions.)

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Faculty of Engineering

OFFICERS AND COMMITTEES

ADMINISTRATIVE OFFICERS

F. CYRIL JAMES, Chevalier de la Légion d'Honneur, B.Com., M.A., Ph.D., D.Sc., D. de l'U., D.C.L., LL.D., F.R.S.C.	<i>Principal</i>
DAVID L. THOMSON, M.A., Ph.D., LL.D., F.C.I.C., F.R.S.C.	<i>Vice-Principal</i>
DONALD L. MORDELL, M.A.	<i>Dean of the Faculty</i>
GEORGE W. JOLY, B.A., M.Eng.	<i>Assistant Dean of the Faculty</i>
JOHN BLAND, B.Arch., A.M.T.P.I., F.R.A.I.C., A.R.I.B.A.	<i>Director of the School of Architecture</i>
G. A. GRIMSON, B.Com.	<i>Comptroller</i>
J. H. HOLTON, B.Com.	<i>Secretary of the Board of Governors</i>
COLIN M. McDOUGALL, D.S.O., B.A.	<i>Registrar</i>
RICHARD PENNINGTON, B.A., Lib.Dip.	<i>University Librarian</i>
E. CLIFFORD KNOWLES, B.D., M.A., D.D.	<i>University Chaplain and Student Counsellor</i>
J. U. MACEWAN, M.S.	<i>Secretary of the Faculty</i>

A complete list of the teaching staff of the University, including the Faculty of Engineering, is printed as a separate announcement which may be obtained from the Registrar's Office.

ENGINEERING

STANDING COMMITTEES OF THE FACULTY

ADMISSIONS

PROFESSOR WILSON (*Chairman*), THE REGISTRAR, and PROFESSORS
MORRISON, ROSENTHALL, and COLLINS

ADMISSION TO ADVANCED STANDING FROM OTHER UNIVERSITIES

PROFESSORS PAKALNINS (*Chairman*), JOLY, PAVLASEK, PHILLIPS,
and STACHIEWICZ

CURRICULUM

DEAN MORDELL (*Chairman*), PROFESSORS BLAND, MACEWAN, MORRISON,
PHILLIPS, BRUCE, d'OMBRAIN, CRAIG, and JOLY

EMPLOYMENT

PROFESSORS MORRISON (*Chairman*), PAKALNINS, and CHERNA

ENGINEERING PHYSICS

PROFESSORS d'OMBRAIN (*Chairman*), FARNELL, POUNDER, TATE,
P. R. WALLACE, and WOONTON

INVIGILATION

PROFESSORS CHERNA (*Chief Invigilator*), and SALMAN

LIBRARY

PROFESSORS BARTON (*Chairman*), DE STEIN, HOWES,
CRAIG, and BRUCE

REGISTRATION

PROFESSORS CHERNA (*Chairman*), BARTON, MATHISON, SCHREIBER,
and SHELSTAD

COMMITTEES

RESEARCH

PROFESSORS YATES (*Chairman*), COLLINS, DE STEIN, FARNELL,
PHILLIPS AND STACHIEWICZ

SCHOLARSHIPS, BURSARIES, AND LOANS

PROFESSORS BRUCE (*Chairman*), DE STEIN (*Vice-Chairman*),
BLAND, MARSHALL, STACHIEWICZ,
MORRISON, PHILLIPS, ROSENTHALL, and YATES

STANDING AND PROMOTION

DEAN MORDELL (*Chairman*), PROFESSORS JOLY, BLAND,
BRUCE, CRAIG, and MACEWAN

TECHNICAL PAPERS

PROFESSORS NEILSON (*Chairman*), EDIS, FARNELL, MATHISON,
MENNIE, MORRISON, PHILLIPS, SALMAN, SCHIPPEL, and YATES

TIME TABLE

PROFESSORS COMSA (*Chairman*), BLAND, COVO, and DOUGLAS

ENGINEERING

Faculty of Engineering

GENERAL INFORMATION AND REGULATIONS

The purpose of the courses of instruction offered by the Faculty of Engineering is to provide training in science and its application to the practice of engineering in its various fields. The School of Architecture is a part of the Faculty of Engineering.

Commencing with the session 1949-50 the training in engineering was changed from one pre-engineering year in the Faculty of Arts and Science and four years in the Faculty of Engineering to five years in the Faculty of Engineering.

COURSES AND DEGREES

ENGINEERING

DEGREES OFFERED: Bachelor of Engineering (B.Eng.), in the departments of Chemical, Civil, Electrical, Mechanical, Metallurgical, and Mining Engineering, and in Engineering Physics, mention being made in the diplomas of the particular course of study pursued.

Students who take the Bachelor of Engineering degree in one course may graduate in another course by attending one or more subsequent sessions and passing the prescribed additional examinations.

PERIOD OF STUDY: Five years.

ENTRANCE QUALIFICATIONS: First year, Junior Matriculation; Second year, Junior and Senior Matriculation with sufficiently high standing. (See pages 1410 and 1411.) The entrance requirements for students of United States schools and for students from Great Britain are stated on page 1412. Students who meet the above requirements apply to the Registrar's Office for admission.

ARCHITECTURE

DEGREE OFFERED: Bachelor of Architecture (B.Arch.).

PERIOD OF STUDY: Six years.

ENTRANCE QUALIFICATIONS: The entrance requirements in Architecture are the same as those for the Engineering courses (see above). The length of the course is six years, the First year being identical with the First year in the Faculty of Engineering.

PRIVILEGES OF THE HOLDERS OF THESE DEGREES

Among the privileges enjoyed by graduates of the Faculty of Engineering the following may be specially mentioned:

- (1) By a resolution of the Institution of Civil Engineers of Great Britain, the holders of the degree of B.Eng., who are desirous of becoming Associate Members of the Institution, may be exempted from Parts A and B of the examinations prescribed for admission to the Institution.
- (2) By the Dominion Lands Surveys Act, any graduate in civil or mining engineering may have his term of apprenticeship for the Dominion Land Surveyor's certificate shortened from three years to one.
- (3) Holders of the degree of B.Eng. are admitted to practise in Quebec upon graduation, provided that they register with the Corporation of Professional Engineers of Quebec upon entering the Faculty. Students entering the Faculty should therefore obtain the necessary application forms from the Dean's Office, complete them, and return them to that office.
- (4) The School of Architecture is recognized by the Royal Institute of British Architects and the instruction given meets the requirements of the Board of Architectural Education of that body. Students who obtain the degree of B. Arch. are exempted from the final examination for the associateship of the Royal Institute except in the subject of professional practice, in which they are required to take a paper set by the Institute's examiners. On passing this they are eligible for candidature as "Associate R.I.B.A."
- (5) The Province of Quebec Association of Architects admits holders of the degree of B.Arch. to membership, and thereby to practise in the Province, on passing an examination in professional practice and after spending one year in the office of a member of the Association.

GENERAL

The undergraduate work of the University in Architecture and in the following fields of Engineering: Chemical, Civil, Electrical, Mechanical, Metallurgical, Mining and Engineering Physics, is done in the Faculty of Engineering.

AGE OF ADMISSION

Except in special circumstances, no student under the age of sixteen is admitted to the First year, or under the age of seventeen to the Second year.

ENGINEERING

MEN AND WOMEN

Both men and women are admitted to the Faculty of Engineering.

THE TWO TERMS

The regular session is divided into two terms, the first starting about the 25th of September and the second starting about the 12th of January. (For Calendar, see the General Information Pamphlet.) For students entering the First year however, the first term begins two weeks earlier. Students commencing a year in the Faculty are normally permitted to enter only in the first term.

ENTRANCE REQUIREMENTS

Eligibility to enter the University through Junior or Senior Matriculation is determined fundamentally by reference to the standards maintained by the McGill School Certificate Examinations. These examinations are described in the School Certificate Examinations Announcement, but the names of the required papers are given below. Certain other public examinations also recognized for admission to the University are listed on page 1411. A student with incomplete qualifications cannot be admitted as a regular undergraduate.

ENTRANCE THROUGH MCGILL SCHOOL CERTIFICATE EXAMINATIONS—

ENTRANCE TO THE FIRST YEAR — Junior Matriculation

For admission to the first year of the B.Eng. courses a candidate must pass the following papers in the University's Junior School Certificate Examination, obtain an over-all average of at least 70%, and obtain at least 60% in every paper written in Mathematics, Physics, and Chemistry, or in subjects taken in lieu of the latter two. A mark of at least 50% is required in all others.

No. of Papers	Subject
2	English
1	General History
2	French or German (both papers)
1	Elementary Algebra
1	Elementary Geometry
1	One of the following: Biology; Botany; Chemistry; Physics
2	Either Latin or Spanish or French or German (if not already chosen), or any two of the following papers not already chosen. (a) Intermediate Algebra (b) Trigonometry

ENTRANCE REQUIREMENTS

- (c) Biology *or* Botany (Biology and Botany may not both be chosen)
- (d) Chemistry
- (e) Geography
- (f) Physics
- (g) British History *or* Canadian History (both may not be chosen)
- (h) Music *or* Drawing (Music and Drawing may not both be chosen)
- (i) North American Literature.

ENTRANCE TO THE SECOND YEAR —Senior Matriculation

English
Mathematics (Algebra, Trigonometry, *and* Co-ordinate Geometry)
Physics
Chemistry
French *or* German* *or* Spanish *or* Greek *or* Latin *or* Biology *or* Geography *or* History.

EXAMINATIONS RECOGNIZED FOR ADMISSION TO THE UNIVERSITY

McGill University recognizes a number of public examinations as conferring, under certain circumstances, Junior or Senior Matriculation standing for admission to the Faculty of Engineering and to other faculties and schools.

The Admissions Committees of the various faculties require generally that:

- (1) The certificate has been obtained under no easier conditions than those of McGill Matriculation.
- (2) The subjects of the examination and the school course followed are those the University requires.
- (3) The school records and confidential reports are satisfactory.

Candidates who wish to enter by certificate should in no circumstances come to the University without first having obtained an official acceptance of their application.

The following gives a brief outline of the certificates and examinations which will be considered on their merits towards meeting the University entrance requirements. For complete details see the School Certificate Examinations Announcement.

*A candidate who has passed the two papers in Junoir School Certificate French may obtain Engineering Senior Matriculation standing in German by passing the Junior School Certificate examinations in this subject.

ENGINEERING

I. FOR ADMISSION TO THE FIRST YEAR OF THE B.Eng. AND B.Arch. COURSES

CANADA

The recognized Junior Matriculation or equivalent examinations of the various provinces.

GREAT BRITAIN

In the General Certificate of Education, passes in five subjects, including Mathematics, at least one Science, and a non-English language, will be the minimum standard for admission. A pass in Religious Knowledge cannot be counted among the five.

UNITED STATES

The tests of the College Entrance Examination Board.

All candidates from the United States must write these tests, preferably at the January or the March session. The Scholastic Aptitude tests and three Achievement tests, chosen with the advice of the applicant's school principal from Intermediate Mathematics, Advanced Mathematics, Physics, and Chemistry, should be taken. Further particulars may be obtained from the Registrar's Office.

MISCELLANEOUS

Other certificates such as those issued by universities or public examining boards will be judged on their merits and accepted if they meet all the University requirements.

II. FOR ADMISSION TO THE SECOND YEAR OF THE B.Eng. AND B.Arch. COURSES

Students from B.Sc. 1 who have completed the required courses of First year Engineering will be considered for admission to Second year Engineering. Applications for admission are to be made to the Registrar's Office.

CANADA

The recognized Junior and Senior Matriculation or equivalent examinations of the various provinces.

GREAT BRITAIN

In the General Certificate of Education, passes in seven appropriate subjects including two at Advanced level. Religious Knowledge cannot be counted in the seven papers.

UNITED STATES

Completion of one year in an approved college with a suitable syllabus and good grades.

APPLICATION FOR ADMISSION

Students are normally permitted to enter at the beginning of the first term only.

Students desiring to enter the Faculty of Engineering must make application on forms which may be obtained from the Registrar's Office. Completed forms must reach the Registrar before August 31st.

It is advantageous for candidates to make preliminary application on the proper forms as early in the year as possible, supplementing this later with the required certificates, transcripts, etc., as these become available.

Applicants should note that clear photo-copies of original documents are acceptable if submitted in duplicate. Sending such copies avoids the risk of losing the originals in the mail.

Students whose native language is not English must satisfy the Registrar that their command of written and spoken English is fluent.

ADMISSION TO ADVANCED STANDING

Students of other colleges or universities who desire to enter any year in this Faculty other than the First or Second, should apply in writing to the Dean of the Faculty not later than July 31st preceding the session it is desired to enter. Such application should state the course the student wishes to enter, and must be supported by an official transcript of the applicant's record at the institution he is leaving, which transcript should be sent directly from the registrar of such institution to the Dean of this Faculty.

To obtain a Bachelor's degree a student must spend at least two years in the Faculty of Engineering.

Graduates of other faculties of McGill University desiring to proceed to the degree of B.Arch., or B.Eng. should consult the Dean of this Faculty for information regarding the regulations governing such procedure.

ENGINEERING

REGISTRATION, ATTENDANCE, AND DISCIPLINE

REGISTRATION DAYS—FIRST YEAR

Registration Day for students entering the First year of the Faculty of Engineering is Thursday, September 15th, 1960. Registration hours are 9:00 a.m. to 12:00 noon, and 2:00 p.m. to 4:00 p.m. All registration takes place in the Macdonald Engineering Building.

After this Registration Day no students will be registered in First year Engineering except with written permission. After October 15th no student will be admitted except by special permission of the Faculty.

A special fee will be charged to those permitted to register late.

REGISTRATION DAYS—ALL STUDENTS EXCEPT FIRST YEAR

Registration Day for students entering the Second, Third, Fourth and Fifth years of Engineering and Architecture, and Sixth year Architecture is Friday, September 23rd, 1960. Registration hours are 9:00 a.m. to 12:00 noon, and 2:00 p.m. to 4:00 p.m. All registration takes place in the Macdonald Engineering Building.

After this Registration Day no students will be registered in the Second, Third, Fourth, or Fifth years of Engineering and Architecture or Sixth year Architecture except with written permission. After October 15th no student will be admitted except by special permission of the Faculty.

A special fee will be charged to those permitted to register late.

ATTENDANCE—FIRST YEAR

1. Students of the First year are required to attend at least seven-eighths of the total number of lectures or laboratory periods in each course. Those whose unexcused absences exceed one-eighth of the total number of lectures in a course are not permitted to sit for the regular examination in that course, and those whose unexcused absences have exceeded one-fourth must repeat the work in that course.

No student in any year will be permitted to sit for the examinations unless he has fulfilled the requirements of the course to the satisfaction of the Instructor and of the Dean.

Excuses for absences in excess of one-eighth are dealt with only by the Dean and are not entertained except in cases of serious illness (which must be vouched for by a proper medical certificate), domestic affliction,

ATTENDANCE

and such other cases as are provided for by special regulations of the Faculty. Medical certificates covering absences must be presented at the Dean's office by the student immediately after his return to University work. Such certificates are filed, and, if they are accepted, the Dean will give the student a statement excusing the absences covered; this must be shown to all professors concerned as promptly as possible.

2. Credit for attendance at any lecture or class may be refused on the grounds of lateness, inattention, neglect of study, or disorderly conduct in the class room or laboratory. These cases are dealt with by the Dean of the Faculty.

3. Lectures commence at five minutes after the hour, on the conclusion of the roll call. After the commencement of a lecture students are not allowed to enter, except with the permission of the professor. If permitted to enter, they report themselves at the close of the lecture and are marked "late". Two lates count as one absence. Lectures end at five minutes before the hour. In cases where it is impracticable to record late attendance, students who are not present at the commencement of the lecture are marked absent.

ATTENDANCE — UPPER YEARS

Students should realize that regular attendance at all scheduled exercises is in their best interests and should make every effort to attend regularly. To allow as much freedom as is consistent with efficient teaching, the following regulations apply:

1. Attendance is not compulsory except in the First year.
2. For other years an instructor may keep records of attendance at laboratory exercises and the like, if he so desires, and is authorized to deal with cases of unsatisfactory attendance at such exercises.
3. Students who have been absent for any reason for three or more teaching days shall report to the Dean's Office immediately upon their return to classes.
4. Lectures begin at five minutes after the hour and end at five minutes before the hour. After the beginning of a lecture students are not admitted, except by permission of the lecturer.
5. Abuse of these regulations will be dealt with as a matter of discipline by the Dean of the Faculty.

DISCIPLINE

The University regulations concerning discipline are administered by the several Faculties, subject, when necessary, to revision or confirmation by Senate.

ENGINEERING

FEES

Regular fees and special fees are given in the General Information pamphlet enclosed with this Announcement.

SPECIAL FEES IN ENGINEERING

SUMMER SCHOOLS — Students who are eligible to attend summer schools in May or September as part of their regular course pay \$10 as a caution money deposit. Students taking summer schools as extra courses will pay \$35, plus a caution money deposit of \$10. Students in Mining Engineering pay an additional fee of \$50 for the Mining Field School.

Students attending the Summer School in Mechanical Drawing for the first time to make up a deficiency will pay \$10.00; for those attending as a supplemental the fee will be \$20.00.

DATES FOR PAYMENT

Fees are due and payable at the Chief Accountant's Office between the hours of 9 a.m. and 4 p.m. (Saturday 9 a.m. to 11 a.m.) from Thursday, September 15th to Saturday, October 8th, inclusive.

If desired, fees may be remitted by mail before the above dates, with Fee Coupon attached. The second instalment of tuition fees is due and payable by January 15th. An additional \$2 is charged for payment after the specified dates.

Students registering late pay their fees at the time of registration, failing which they become subject to the provisions of the above paragraph.

Immediately after the prescribed dates for the payment of fees, the Chief Accountant will send to the Dean of each Faculty a list of the registered students who have not paid their fees. The Dean will thereupon suspend them from attendance at classes until such time as the fees are paid or satisfactory arrangements are made with the Chief Accountant.

SCHOLARSHIPS, BURSARIES, PRIZES, MEDALS, AND LOAN FUNDS

Details of scholarships, bursaries, and loan funds will be found in the Scholarships, Bursaries, and Loan Funds Announcement which may be obtained from the Registrar's Office.

HEALTH SERVICE

The attention of students is especially directed to the heavy fines which are automatically levied if health examinations are not arranged for and completed.

EXAMINATIONS

Information concerning the University Health Service will be found in the General Information pamphlet enclosed with this Announcement.

Those engaged in certain branches of mining and metallurgical work are subject by provincial authorities and mining companies to regulations regarding physical fitness, with particular reference to chest conditions and sight. Students registering for courses in Mining or Metallurgical Engineering are therefore required to undergo a special medical examination to determine their fitness. Convenient arrangements are made through the University Medical Officer for such examinations. While assisting students to determine their degree of fitness, the University assumes no responsibility for decisions made by those administering the regulations referred to above.

EXAMINATIONS AND CLASS TESTS

1. Sessional examinations are normally set in all lecture subjects and are written in April (or December-January for first-term subjects).
2. Supplemental examinations are set for those students granted permission by the Committee on Standing and Promotion to sit for them and are written in August-September.
3. Class tests are set for First, Second and Third year students at two periods, November and December-January.

STANDING AND PROMOTION

I. SESSIONAL EXAMINATIONS

1. The standing of a student in the work of a class year is established in the Spring by the Committee on Standing and Promotion on the basis of an overall view of the results the students has achieved in the sessional examinations.
2. The standard which a student is expected to attain in order to be allowed to proceed to the next class year is an overall average in the sessional examinations of 60% of the weighted marks of the curriculum and at least 50% in every separate examination. The standing assigned for achieving this standard is PASSED COMPLETE PROMOTED.
3. The terms of standings that will be assigned a student who does not obtain this standard will be laid down at the SOLE discretion of the Committee on Standing and Promotion. In some circumstances these terms will include permission for a student to write at the SUPPLEMENTAL examination period in order to attempt to improve his standing.

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4. A student is awarded one of the following designations for the mark he achieves in a given subject:

80 - 100%	First Class I
65 - 79%	Second Class II
50 - 64%	Third Class III
Less than 50%	Failed F

II. CLASS TESTS

The standard which students should achieve is the same as that expected in the Sessional Examinations. Students who do not achieve it may, at the discretion of the Committee on Standing and Promotion, be required to withdraw at the end of the first term.

SOCIETIES

1. Upon entrance into the Faculty, all undergraduate students automatically become members of the Engineering Undergraduates Society.
2. The students also support the Society of the Phi Epsilon Alpha. The members of this society are selected from graduates and undergraduates in engineering, and its object is to encourage high standards of character and scholarship.
3. Students in all departments of engineering are strongly recommended to become student members of the Engineering Institute of Canada, for which a fee of \$3 is required. They are then entitled to the Journal of the Institute, to the use of the Institute's building, 2050 Mansfield Street, Montreal 2, and to attend the weekly meetings. Students are invited to compete for the prizes which are offered by the Institute.
4. Students in Mining Engineering and in Metallurgical Engineering are strongly recommended to become members of the McGill Mining and Metallurgical Society, which, although a student body, is affiliated with the Canadian Institute of Mining and Metallurgy, the headquarters of which are in the Drummond Building, 1117 St. Catherine St. W., Montreal 2. Members of this Society receive the Monthly Bulletin of the Transactions of the Institute free, and are entitled to attend meetings and to compete for prizes offered.
5. Students in Architecture are recommended to become student members of the Province of Quebec Association of Architects, for which a fee of \$1.00 is required. They are then entitled to use the library of the Association, 620 Cathcart Street, Montreal 2.

6. Students in Electrical Engineering are strongly recommended to become Student Members of either the Institute of Radio Engineers or the American Institute of Electrical Engineers. Both of these societies have Montreal sections which hold regular meetings at which the speakers are prominent engineers from all over the continent. Student Members receive notices of meetings, and the monthly publication of either society.

7. Students in Mechanical Engineering may become Student Members of either the Society of Automotive Engineers or the Canadian Aeronautical Institute if they wish. Both of these societies have Montreal branches which hold regular meetings.

Courses of Instruction

Instruction in this Faculty is designed to afford thorough training of a practical as well as theoretical nature in the following branches:

- I—Architecture
- II—Chemical Engineering
- III—Civil Engineering
- IV—Electrical Engineering
- V—Mechanical Engineering
- VI—Metallurgical Engineering
- VII—Mining Engineering
- VIII—Engineering Physics

A note concerning graduate courses follows the list of undergraduate courses in each department. Details are given in the Announcement of the Faculty of Graduate Studies and Research.

CURRICULUM

The curriculum as laid down in the following pages may be changed from time to time, as deemed advisable by Faculty, and is in no case binding beyond the session covered by this Announcement.

The course for a degree in any branch of Engineering is one of five years, and for a degree in Architecture the course is a six-year one.

The degree in Engineering will not be conferred upon any candidate until he has passed the prescribed examinations of his course, and has submitted satisfactory evidence to Faculty of having had a minimum of six months of experience in practical engineering work. Similar regulations apply to the degree in Architecture. See page 1449. Forms for reporting employment, which must be signed by the employer, are available from the Dean's Office. To report employment for the summer of 1960 they must be returned to the Dean's Office not later than 12 noon, October 22nd, 1960.

The first three years of the Engineering courses are devoted largely to Mathematics, Mechanics, Physics, Chemistry, and Drawing, as it is necessary that students in these courses should master the general principles underlying scientific work before commencing professional subjects.

CURRICULUM IN LOWER YEARS

In certain courses, students are required to attend summer schools, following the completion of the work of the session in the Second, Third and Fourth years: for details, see page 1448.

ENGINEERING COURSES

The following schedules set out the various courses as it is expected they will be given during the session to which this Announcement applies, but the Faculty of Engineering reserves its right to alter them if it deems desirable. Notice of such alteration is posted for the information of students.

Engineering and Architecture

FIRST YEAR

NORMAL COURSE

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
*Engineering Drawing I.....	511	50	..	..	3	3
Chemistry	902	200	3	3	3	3
English Literature	1000	150	3	3	..	..
English Composition.....	1001	50	1	1	..	..
Analytic Geometry	1203	200	3	3	..	..
Engineering Problems.....	1204	..	..	..	2	2
Physics.....	1311	200	3	3	2	2
Optional Course (select one from list below)	14	150	..	..	..	..
Concepts of Engineering.....	1500	..	1	1	..	..
Total .....	...	1000	14 plus option	14 plus option	10 plus option	10 plus option

* A deficiency or condition in Course 511 may be cleared only by attending a special school held during September.

The Normal Course is the one in which applicants who have matriculated from Canadian high schools will usually be registered. It assumes that the applicant has completed Trigonometry and Intermediate Algebra.

Students entering First year Engineering who have passed their Junior Matriculation examinations with a very high standing and who wish to register for one additional subject must make application to do so at the time of applying for admission to the Faculty.

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FIRST YEAR

SPECIAL COURSE

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc hours per week.	
			First term	Second term	First term	Second term
Engineering Drawing I.....	511	50	..	..	3	3
Chemistry.....	902	200	3	3	3	3
English Literature.....	1000	150	3	3	..	..
English Composition.....	1001	50	1	1	..	..
Trigonometry.....	1200	100	3	..	..	..
Algebra and Anal. Geometry...	1201	100	..	3	..	..
Engineering Problems.....	1202	..	..	..	2	2
Physics.....	1311	200	3	3	2	2
Optional Course (select one from list below).....	14	150	..	..	..	..
Concepts of Engineering.....	1500	..	1	1	..	..
Total.....	..	1000	14 plus option	14 plus option	10 plus option	10 plus option

The Special Course is the one in which applicants will be registered whose previous work in Mathematics does not meet the standards set by Faculty for entry into the Normal Course. Applicants may, however, be exempted from some of the subjects of the Special Course at the discretion of Faculty.

OPTIONAL COURSES

Biology 1402
 French 1491 or 1493
 Economic History 1430
 Geography 1442
 German 1450 or 1451
 History 1460
 Latin 1425 or 1426
 Music 1480
 Spanish 1495
 Russian 1455

Descriptions of these optional courses are given on pages 1499 to 1503.

Students are advised to make a careful choice from the Optional Courses at the time of registration since the scheduling of First year lectures based on these choices precludes any changes after the day of registration.

CURRICULUM IN ARCHITECTURE

Engineering

SECOND YEAR

(For Second Year Architecture, see page 1424)

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
Mechanics.....	320	150	2	2	2	2
Materials of Engineering.....	342	50	1	1	..	..
Surveying.....	324	50	..	2	..	..
*Survey School.....	352	Year 3	..	..	..	..
**Engineering Drawing II.....	521	100	..	..	3	3
Descriptive Geometry.....	522	100	1	1	2	2
Physical Chemistry and Laboratory.....	922	125	2	2	1	1
Algebra.....	1220	50	2	..	..	..
Calculus.....	1224	150	3	3	..	..
Mensuration and Spherical Trigonometry.....	1226	50	..	2	..	..
Physics and Laboratory.....	1320	100	3	..	2	..
Physics and Laboratory.....	1322	100	..	3	..	2
***Analytic Geometry.....	1222	100	2	2	..	..
Total.....		1025 or 1125	14 or 16	16 or 18	10	10

*Course 352 must be attended at the end of the Second year from about April 25 to May 25.

**A condition in Course 521 may be cleared only by attending a Special School starting September 6th. Applicants for entry into Second year with Senior Matriculation standing who are deficient in Engineering Drawing must attend a Special School commencing September 6th, before permission to register in Second year will be granted.

***Course 1222 is for those students who have not followed the Normal Course of Year One or who have registered in Year Two with Senior Matriculation standing.

I. ARCHITECTURE

The course for the degree of Bachelor of Architecture extends over six years and aims to provide a basic training in the art and science of building. The First year is the regular First year of the Faculty of Engineering. The Second year is the regular Second year of the Faculty of Engineering with alternatives in Drawing and History of Architecture. The subjects of Building Construction, Architectural and Structural Design, History of Architecture, Civic Design, Acoustics, Electrical and Mechanical Services of Buildings, and Community Planning are taken during the Third, Fourth and Fifth years. The work of the Sixth year consists of Architectural Design, Specifications and Professional Practice.

FIRST YEAR

As in engineering courses (see page 1421).

ENGINEERING

Architecture SECOND YEAR

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
Architectural Report.....	117	100	..	..	..	..
Architectural Drawing.....	113	75	1	1	6	6
Elements of Design.....	114	75	..	..	..	..
History of Architecture.....	116	100	2	2	2	2
Mechanics.....	320	150	2	2	..	..
Materials of Engineering.....	342	50	1	1	..	..
Surveying.....	324	50	..	2	..	..
*Survey School.....	352	Year 3	..	..	..	..
Algebra.....	1220	50	2	..	..	..
**Analytic Geometry.....	1222	100	2	2	..	..
Calculus.....	1224	150	3	3	..	..
Mensuration and Spherical Trigonometry.....	1226	50	..	2	..	..
Physics and Laboratory.....	1320	100	3	..	2	2
Physics and Laboratory.....	1322	100	..	3	..	2
Total.....		1050 or 1150	14 or 16	16 or 18	10	10

*Course 352 must be attended at the end of the Second year from about April 25 to May 25.

**Course 1222 is for those students who have not followed the Normal Course of Year One or who have registered in Year Two with Senior Matriculation standing.

Note: Students who complete Second year Architecture may enter Third year Engineering by making up deficiencies in Engineering Drawing 521, Descriptive Geometry 522, and Elementary Physical Chemistry and Laboratory 922.

A special Summer School in Engineering Drawing of two weeks duration will be made available for such students as enter Second year with senior matriculation and with a deficiency in Engineering Drawing 511.

Architecture THIRD YEAR

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
Architectural Report.....	130	100	..	..	..	..
Building Construction.....	131	250	1	1	15	18
Elements of Design.....	132	50	..	..	3	3
Freehand Drawing.....	133	50	..	..	3	3
History of Architecture.....	134	100	2	2	..	..
**Materials of Engineering.....	342	50	1	1	..	..
Mechanics.....	340	100	2	2	..	..
Surveying.....	350	50	2	..	3	..
Surveying Problems.....	351	25	..	..	..	..
*Survey School.....	352	100	..	..	..	..
Technical Paper.....	830	100	..	..	..	..
Calculus.....	1242	100	2	2	..	..
Total.....		1075	10	8	24	24

*Counted as part of Third year curriculum, but taken in four weeks following the close of the Second year. Students entering from other universities do this work in a special summer school before entering Third year (see page 1448).

**Session 1960-61 only.

CURRICULUM IN ARCHITECTURE

Architecture FOURTH YEAR

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
Civic Design.....	145	50	1	1	..	..
Architectural Report.....	146	100	..	..	..	..
Building Construction.....	147	100	1	1	6	..
Design A.....	148	250	..	..	9	12
Freehand Drawing.....	150	50	..	..	3	3
History of Architecture.....	151	100	2	2	..	..
Design Workshop.....	162	50	..	..	3	3
Structural Design I.....	360	75	2	..	2	..
Foundations.....	363	75	1	1	..	3
Strength of Materials.....	373	125	2	2	..	3
•Electrical Services.....	498	50	2	..	..	..
Technical Paper.....	840	100	..	..	..	..
Total.....		1075	9	7	23	24

*Given to combined Fourth and Fifth years in alternate years. Course 498 will be given in session 1960-61.

Architecture FIFTH YEAR

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
Social Observation.....	152	100	2	2	..	..
Architectural Report.....	160	100	..	..	..	..
Design B.....	161	300	1	1	17	17
History of Architecture.....	163	100	2	2	..	..
Planning.....	164	100	2	2	..	..
Sketching School.....	165	50	..	..	..	..
Design Workshop.....	178	25	..	..	3	..
Reinforced Concrete.....	390	75	2	..	2	..
•Electrical Services.....	498	50	2	..	..	..
Mechanical Services.....	578	100	2	2	..	3
Technical Paper.....	850	100	..	..	..	..
Acoustics of Buildings.....	1380	50	1	..	..	2
Engineering Practice I.....	1561	50	..	2	..	..
Total.....		1150	12	11	22	22

*Given to combined Fourth and Fifth years in alternate years. Course 498 will be given in 1960-61.

ENGINEERING

Architecture

SIXTH YEAR

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
Sketching School.....	166	50	..	..	..	..
Architectural Report.....	175	100	..	..	..	..
Design C.....	176	600	..	..	24	24
Design Seminar.....	177	..	..	..	..	..
Monumental Buildings.....	179	100	2	2	..	..
Professional Practice.....	180	50	1	1	..	..
Specifications.....	181	50	1	1	..	..
Structural Design II.....	399	50	1	..	3	..
Technical Paper.....	860	100	..	..	..	..
Engineering Practice II.....	1580	50	2	..	..	..
Total.....		1150	7	4	27	24

II. CHEMICAL ENGINEERING

The aim of this course is to provide a broad fundamental training, which, when supplemented by practical experience, will make the engineer competent to design and operate industrial plants and to understand the processes.

Part of the time in the Third year is devoted to Chemistry in addition to general engineering subjects. In the Fourth year, time is divided between Chemistry and Engineering, and Chemical Engineering topics are introduced. The Fifth year is devoted mostly to Chemistry and Chemical Engineering, including a course in unit operations.

FIRST AND SECOND YEARS

As in other Engineering courses (see pages 1421 to 1423), except that students do not take the Summer School in Surveying Field Work 352

CURRICULUM IN CHEMICAL ENGINEERING

Chemical Engineering THIRD YEAR

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
Chemical Engineering Problems	240	150	2	2	3	3
**Materials of Engineering.....	342	50	1	1	..	..
Mechanics.....	340	100	2	2	..	..
*Physical Metallurgy.....	670	50	1	..	2	..
Technical Paper.....	830	100	..	..	..	..
Systematic Inorganic Chemistry	910	100	2	2	..	..
Inorganic Quantitative Analysis	944	150	1	1	6	6
Organic Chemistry.....	948	100	2	2	..	..
Organic Chemistry Laboratory	950	50	..	..	3	3
Calculus.....	1242	100	2	2	..	..
Physics.....	1310	150	2	2	3	3
Engineering Reports.....	1540	50	1	1	..	..
Total		1100	16	15	17	15

*Commencing 1961-62.

**Session 1960-61 only.

Chemical Engineering FOURTH YEAR

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
Chemical Technology.....	260	150	3	3	..	..
Chemical Engineering Laboratory I.....	262	50	..	..	3	3
Elementary Chemical Engineering.....	264	150	3	3	..	..
Problem Period.....	265	50	..	..	3	3
Thermodynamics.....	268	100	2	2	..	..
Strength of Materials.....	373	125	2	2	..	3
*Physical Metallurgy.....	670	50	1	..	2	..
Technical Paper.....	840	100	..	..	..	..
Advanced Organic Chemistry...	962	150	2	2	3	3
High Polymers (extra).....	966	..	1	1	..	..
Intermediate Physical Chemistry Laboratory.....	968	50	..	..	3	3
Differential Equations.....	1260	100	2	2	..	..
Engineering Reports.....	1560	50	1	1	..	..
Engineering Practice I.....	1561	50	..	2	..	..
Total		1175	16	17	14	15

*Session 1960-61 only.

ENGINEERING

Chemical Engineering

FIFTH YEAR

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
Chemical Engineering A.....	280	150	3	3	..	..
Chemical Engineering B.....	282	150	3	3	..	..
Chemical Engineering Design.....	284	100	2	2	..	..
Instrumentation.....	285	50	2	..	..	..
Chemical Engineering Laboratory II.....	286	100	..	..	6	6
Applied Reaction Kinetics.....	287	50	..	2	..	..
Thermodynamics.....	288	100	2	2	..	..
Elements of Electrical Engineering.....	470	100	2	2	..	..
Electrical Engineering Laboratory.....	472	50	..	..	3	3
Technical Paper.....	850	100	..	..	..	..
Advanced Physical Chemistry Laboratory.....	984	50	..	..	3	3
Colloid Chemistry.....	986	50	1	1	..	..
Electrochemistry.....	988	50	1	1	..	..
Engineering Practice II.....	1580	50	2	..	..	..
Engineering Law.....	1581	50	2	..	..	..
Total.....		1200	20	16	12	12

III. CIVIL ENGINEERING

REGULAR COURSE

The regular course of study is designed to emphasize the fundamental principles of mechanics, strength of materials, design of structures, and hydraulics, at the same time affording an opportunity of applying these principles to practical problems ranging widely over the field of civil engineering. A sound foundation is laid for future specialization. The outlook of the student is broadened by courses in Mechanical, in Metallurgical, and in Electrical Engineering. In the designing courses special attention is given to the interpretation and critical discussion of specifications and to the economic factors involved.

FIRST AND SECOND YEARS

As in other Engineering courses (see pages 1421 to 1423).

CURRICULUM IN CIVIL ENGINEERING

Civil Engineering (Regular Course)

THIRD YEAR

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
***Materials of Engineering.....	342	50	1	1	..	..
Mechanics.....	340	100	2	2	..	..
Surveying.....	350	50	2	..	..	..
Surveying Problems.....	351	25	..	..	3	..
*Survey School.....	352	100	..	..	..	..
Structural Drawing.....	341	25	..	..	3	..
Mechanics of Machines.....	542	50	..	1	..	3
**Physical Metallurgy.....	670	50	1	..	2	..
Technical Paper.....	830	100	..	..	..	..
General Geology.....	1142	125	2	2	2†	2
Calculus.....	1242	100	2	2	..	..
Physics.....	1340	150	2	2	3	3
Engineering Reports.....	1540	50	1	1	..	..
Total.....	...	925	12	11	11	8

*This School is held in the Spring at the end of the Second year, from about April 25 to May 25, and a student must attend it before he may register in the Third year. Students entering the Third year from other universities may make special arrangements at the time of their application.

**Commencing 1961-62.

***Session 1960-61 only.

†During the first few weeks the laboratory work is replaced by field excursions.

Students who complete the Third year of Mechanical Engineering at McGill may transfer to the Fourth year of Civil Engineering if they attend Survey School 377 at the end of their Third year.

Civil Engineering (Regular Course)

FOURTH YEAR

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
Hydraulics.....	364	75	2	..	3	..
Structural Design I.....	360	75	..	2	..	2
Foundations.....	362	100	1	1	3	3
Map Projections (extra).....	368	..	1	..	2	..
Highway Engineering.....	371	75	2	..	3	..
Strength of Materials.....	373	125	2	2	..	3
Surveying.....	376	100	2	2	..	..
*Survey School.....	377	100	..	..	..	..
Mechanical Engineering.....	566	150	2	2	..	..
Laboratory.....	569	..	..	..	3	3
***Physical Metallurgy.....	670	50	1	..	2	..
Technical Paper.....	840	100	..	..	..	..
Engineering Reports.....	1560	50	1	1	..	..
Engineering Practice I.....	1561	50	..	2	..	..
**Railway Engineering.....	372	50	..	1	..	3
***Differential Equations.....	1260	100	2	2	..	..
Total.....	...	1100 or 1150	13 or 15	13 or 14	14	11 or 14

*Taken in four weeks following the Third year.

**Alternates.

***Session 1960-61 only.

ENGINEERING

Civil Engineering (Regular Course)

FIFTH YEAR

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
Structural Design II.	380	150	1	2	3	5
*Foundations and Reinforced Concrete.	382	75	..	2	..	3
*Geodesy.	384	50	..	2	..	..
*Geodetic Laboratory.	385	25	..	..	..	3
Hydraulic Machines.	386	50	..	2	..	..
Municipal Engineering.	387	125	2	2	3	..
*Photogrammetry.	388	75	..	2	..	3
Reinforced Concrete.	390	75	2	..	2	..
Theory of Structures.	392	175	2	2	5	3
†Survey School (extra).	394	..	..	..	..	..
Urban Planning.	395	50	1	1	..	..
Elements of Electrical Engineering.	470	100	2	2	..	..
Electrical Engineering Laboratory.	472	50	..	..	3	3
Technical Paper.	850	100	..	..	..	..
Engineering Practice II.	1580	50	2	..	..	..
Engineering Law.	1581	50	2	..	..	..
Total.		1050	14	13	16	14

*Alternates; Course 382 or Courses 384 and 385 or Course 388, to be taken.

†Taken in four weeks following Fourth year.

APPLIED MECHANICS OPTION

The courses of study in the applied mechanics option are designed to give rather more emphasis to the field of applied mechanics than is given in the regular civil engineering course. A broad mathematical foundation is provided, permitting a more intensive treatment of technical phases of applied mechanics, including fluid mechanics and vibrations. The work of the regular course in Railway and Highway Engineering, Geodesy, and Municipal Engineering is omitted, but all the basic engineering of the regular course is retained. The training is designed for those students who wish to fit themselves for positions in the field of advanced structural design, and for graduate and research work in this and allied fields.

A student electing this option may revert to the regular civil engineering course at the end of his Third year without making up the regular work missed, provided his standing in all other respects is satisfactory. Reversion at the end of the Fourth year involves making up certain of the work missed. Students who make only low pass standing will be required to revert.

Registration for this option is restricted to students whose general background, and whose standing attained in the Second year, particularly in mathematics, indicate that they can profit by it. Students intending to register for this option should consult with the Chairman of the Department and obtain his approval of such registration prior to September 15th.

CURRICULUM IN CIVIL ENGINEERING

Civil Engineering (Applied Mechanics Option)

THIRD YEAR

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
***Materials of Engineering.....	342	50	1	1	..	..
Mechanics.....	340	100	2	2	..	..
Surveying.....	350	50	2	..	..	..
Surveying Problems.....	351	25	..	..	3	..
*Survey School.....	352	100	..	..	..	..
**Physical Metallurgy.....	670	50	1	..	2	..
Technical Paper.....	830	100	..	..	..	..
General Geology.....	1142	125	2	2	2†	2
Advanced Calculus.....	1240	150	3	3	..	..
Vector Methods and Nomography.....	1246	50	1	1	..	..
Differential Equations.....	1260	100	2	2	..	..
Physics.....	1340	150	2	2	3	3
Engineering Reports.....	1540	50	1	1	..	..
Total.....		1050	16	14	8	5

*Counted as part of Third year curriculum, but taken in four weeks following the close of the Second year. Students entering from other universities do part of this work in a special summer school before entering Third year (see page 1448).

**Commencing 1961-62.

***Session 1960-61 only.

†During the first few weeks the laboratory work is replaced by field excursions.

Civil Engineering (Applied Mechanics Option)

FOURTH YEAR

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
*Thermodynamics.....	268	100	2	2	..	..
Structural Design I.....	360	75	..	2	..	2
*Foundations.....	362	100	1	1	3	3
Hydraulics.....	364	75	2	..	3	..
Strength of Materials.....	373	125	2	2	..	3
†Dynamics and Vibrations.....	381	75	1	2	..	..
†Fluid Dynamics.....	383	75	1	2	..	..
Mechanical Engineering.....	566	150	2	2	..	..
Mechanical Engineering Laboratory.....	569	..	..	..	3	3
**Physical Metallurgy.....	670	50	1	..	2	..
Technical Paper.....	840	100	..	..	..	..
Theory of Functions.....	1264	125	2	2	1	1
Engineering Reports.....	1560	50	1	1	..	..
Engineering Practice I.....	1561	50	..	2	..	..
Total.....		975	12 or 13	14 or 15	9 or 12	9 or 12

*Alternates. Course 362 is prerequisite to (extra) Course 382, Fifth year.

**Session 1960-61 only.

†Given to combined Fourth and Fifth years in alternate years. Course 383 will be given in 1960-61.

ENGINEERING

Civil Engineering (Applied Mechanics Option)

FIFTH YEAR

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
Structural Design II.....	380	150	1	2	3	5
*Dynamics and Vibrations.....	381	75	1	2	..	..
†Foundations and Reinforced Concrete (extra).....	382	..	..	2	..	3
*Fluid Mechanics.....	383	75	1	2	..	..
Hydraulic Machines.....	386	50	..	2	..	..
Reinforced Concrete.....	390	75	2	..	2	..
Theory of Structures.....	392	175	2	2	5	3
Elements of Electrical Engineering.....	470	100	2	2	..	..
Electrical Engineering Laboratory.....	472	50	..	..	3	3
Technical Paper.....	850	100	..	..	..	..
Engineering Practice II.....	1580	50	2	..	..	..
Engineering Law.....	1581	50	2	..	..	..
Total.....		875	12	10	13	11

*Given to combined Fourth and Fifth years in alternate years. Course 383 will be given in 1960-61.

†Foundations 362, Fourth year, is prerequisite.

IV. ELECTRICAL ENGINEERING

The course leading to the B.Eng. in Electrical Engineering provides a mathematical and physical background for the theoretical principles of modern electrical engineering. The theoretical content is supplemented with adequate laboratory work and provides a training to fit students for positions in all branches of Electrical Engineering.

The first three years of the course provide the student with a broad training in the fundamentals common to all branches of engineering.

The Fourth year is common to all Electrical Engineering students.

The Fifth year course consists of three parts; the first is taken by all students, the second provides two options, one in electrical machines, generation and transmission, the other in various aspects of electrical communications. The third part provides a number of half courses of which two must be taken.

FIRST AND SECOND YEARS

As in other Engineering Courses (see pages 1421 to 1423).

CURRICULUM IN ELECTRICAL ENGINEERING

Electrical Engineering THIRD YEAR

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
**Materials of Engineering.....	342	50	1	1	..	..
Mechanics.....	340	100	2	2	..	..
*Survey School.....	352	100	..	..	..	..
Circuit Analysis.....	442	150	2	2	3	3***
Mechanical Engineering.....	566	150	2	2	..	..
Laboratory.....	569	..	..	..	3	3
Technical Paper.....	830	100	..	..	2†	2
General Geology.....	1142	125	2	2	..	..
Calculus.....	1242	100	2	2	..	..
Differential Equations.....	1260	125	2	2	..	..
Electricity & Atomic Physics.....	1343	150	3	2	3	3***
Engineering Reports.....	1540	50	1	1	..	..
Total.....		1200	17	16	11	8

*This School is held in the Spring at the end of the Second year from about April 25 to May 25, and a student must attend it before he may register in the Third year. Students entering the Third year from other universities may make special arrangements at the time of their application.

**Session 1960-61 only.

***Alternate weeks.

†During the first few weeks the laboratory work is replaced by field excursions.

Electrical Engineering FOURTH YEAR

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
Strength of Materials.....	373	125	2	2	..	3
Electrical Theory and Measurements.....	460	150	3	3	..	..
Electronics and Communications	461	100	2	2	..	..
Energy Conversion and Transmission.....	462	100	2	2	..	..
Laboratory.....	463	100	..	..	6	6
Tutorials.....	464	75	..	..	6	3
*Mechanical Engineering.....	566	150	2	2	..	..
*Mechanical Engineering Laboratory.....	569	..	..	..	3	3
Technical Paper.....	840	100	..	..	..	..
Engineering Mathematics.....	1269	125	2	2	1	1
Solid State Physics.....	1370	100	2	2	..	..
Engineering Practice.....	1561	50	..	2	..	..
Total.....		1175	15	17	16	16

*Session 1960-61 only.

ENGINEERING

Electrical Engineering

FIFTH YEAR

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
Electrical Theory and Measurements.....	480M	150	3	3	..	..
Electronic Devices.....	481M	100	2	2	..	..
Control Engineering.....	482M	50	2	..	6	6
Combined Electrical Laboratory	483M	100	..	..	4	4
Combined Electrical Tutorial...	484M	50	..	..	..	..
Technical Paper.....	850	100	..	..	..	..
Engineering Practice.....	1580	50	2	..	..	..
Engineering Law.....	1581	50	2	..	..	..
AND EITHER						
Energy Conversion and Transmission.....	485M	150	3	3	..	..
OR						
Communications.....	486M	150	3	3	..	..
PLUS TWO OF THE FOLLOWING—						
ONE IN EACH TERM:						
Hydraulics.....	364	75	2	..	3	..
Hydraulics Machines.....	386	75	..	2	..	..
Acoustics.....	487M	75	2	..	3	..
Electrical Machine Design.....	488M	75	2	..	..	3
Radio Engineering Design.....	489M	75	..	2	..	3
Control Engineering Design.....	490M	75	..	2	3	..
Electro-magnetic Theory.....	491M	75	2	..	3	..
Numerical Analysis.....	492M	75	2	..	..	3
Mathematical Machine Methods	493M	75	..	2	..	3
Introduction to Probability						
& Statistics.....	1291	75	2	..	1	..
Electrical Power System						
Analysis.....	496M	75	..	2	..	3
Power Modulators for						
Control Systems.....	497M	75	2	..	3	..
Total.....		950	16	10	11 or 13	10 or 13

ENGINEERING PHYSICS (Electrical)

The course leading to the degree of B.Eng. in Engineering Physics (Electrical) is planned for those students who wish to fit themselves for positions in development and research.

Registration in Engineering Physics is restricted to those students who have completed Second year Engineering with first class standing. Moreover, to remain in this course, students must achieve a good Second Class standing in the examinations.

FIRST AND SECOND YEARS

As in other Engineering courses (see pages 1421 to 1423).

CURRICULUM IN ENGINEERING PHYSICS

Engineering Physics THIRD YEAR

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
*Materials of Engineering.....	342	50	1	1	..	..
Mechanics.....	340	100	2	2	..	..
**Survey School.....	352	100	..	..	..	..
Circuit Analysis.....	441	125	2	2	..	3***
Technical Paper.....	830	100	..	..	..	..
Advanced Calculus.....	1240	150	3	3	..	..
Vector Methods & Nomography.....	1246	50	1	1	..	..
Differential Equations.....	1260	100	2	2	..	..
Electricity & Atomic Physics.....	1343	150	3	2	..	..
Advanced Light.....	1346	125	2	2	3	3***
Engineering Reports.....	1540	50	1	1	3	3
Engineering Practice.....	1561	50	..	2	..	..
Total.....		1150	17	17	6	6

*Session 1960-61 only.

**This School is held in the Spring at the end of the Second year, from about April 25 to May 25, and a student must attend it before he may register in the Third year. Students entering the Third year from other universities may make special arrangements at the time of their application.

***Alternate weeks.

Engineering Physics FOURTH YEAR

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
Strength of Materials.....	373	125	2	2	..	3
Laboratory.....	465	100	..	..	6	9
Linear Network Theory.....	466	100	2	2	..	..
Electronics.....	467	100	2	2	..	..
Technical Paper.....	840	100	..	..	..	..
Advanced Mathematical Methods.....	1265	125	2	2	1	1
Atomic Physics.....	1362	50	..	2	..	..
Heat and Thermodynamics.....	1365	100	2	2	..	..
Statics and Dynamics.....	1368	150	3	3	..	..
Electromagnetic Theory.....	1369	50	2	..	..	..
*Engineering Practice I.....	1561	50	..	2	..	..
Total.....		1050	15	17	7	10

*Session 1960-61 only.

ENGINEERING

Engineering Physics

FIFTH YEAR

(for 1960-61 only)

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
Electronic Devices.....	481M	100	2	2	..	..
Communications.....	486M	150	3	3	..	..
Electrical Theory and Measurements.....	494M	100	2	2	..	..
Combined Laboratory.....	495M	50	..	..	3	3
Technical Paper.....	850	100	..	..	..	..
Fluid Dynamics (extra).....	1282	..	3	..	..	..
Advanced Dynamics (extra).....	1281	..	..	3	..	..
Atomic and Molecular Structure.....	1382	50	..	2	..	..
Electromagnetic Theory.....	1388	100	2	2	..	..
Mathematical Physics.....	1390	150	3	3	..	..
Radioactivity.....	1392	150	2	2	3	3
Total.....		950	14	14	6	6

V. MECHANICAL ENGINEERING

The branch of engineering designated as Mechanical is of a broad nature covering many engineering fields. It is concerned with the generation and utilization of power, the design, production, and operation of mechanical devices, and the organization and administration of industrial plants.

REGULAR COURSE

The regular course offers a basic general engineering training to serve as a sound structure on which subsequently to specialize in the problems of any particular industry. The laboratory classes and problem periods are designed to integrate with the lecture courses, serving to illustrate the practical application of the basic engineering principles in many different fields.

Arrangements are made for occasional visits to power plants and factories of importance.

CURRICULUM IN MECHANICAL ENGINEERING

FIRST AND SECOND YEARS

As in other Engineering courses (see pages 1421 to 1423).

Mechanical Engineering (Regular Course)

THIRD YEAR

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
Mechanics.....	340	100	2	2	..	..
**Materials of Engineering.....	342	50	1	1	..	..
*Survey School.....	352	100	..	..	..	..
Strength of Materials.....	373	125	2	2	..	3
Engineering Drawing III.....	541	25	..	..	3	..
Mechanics of Machines.....	542	50	..	1	..	3
Machine Shop.....	543	50	..	..	3	3
Engineering Problems.....	544	50	..	..	3	3
Experimental Engineering.....	545	75	1	1	1	1
***Physical Metallurgy.....	670	50	1	..	2	..
Technical Paper.....	830	100	..	..	..	..
Calculus.....	1242	100	2	2	..	..
Physics.....	1340	150	2	2	3	3
Differential Equations.....	1260	100	2	2	..	..
Engineering Reports.....	1540	50	1	1	..	..
Elective (not yet available).....	....	...	..	..	..	..
Total.....		1125	13	14	13	16

*This School is held in the Spring at the end of the Second year, from about April 25 to May 25, and a student must attend it before he may register in the Third year. Students entering the Third year from other universities may make special arrangements at the time of their application.

**Session 1960-61 only.

***Commencing 1961-62.

Students who complete the Third year of Civil or Electrical Engineering at McGill may transfer to the Fourth year of Mechanical Engineering if they apply before August 1.

ENGINEERING

Mechanical Engineering (Regular Course)

FOURTH YEAR

(for 1960-61 only)

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
*Strength of Materials.....	373	125	2	2	..	3
Electrical Engineering.....	470	100	2	2	..	3
Electrical Engineering Lab.....	472	50	..	..	3	..
Industrial Engineering I.....	561	75	2	..	2	..
Machine Shop II.....	563	50	..	2	5	..
Mechanics of Machines.....	564	125	2	2	1	1
Mechanical Engineering Laboratory.....	569	50	..	..	3	3
Applied Thermodynamics I.....	571	125	2	2	1	1
Fluid Mechanics.....	573	50	2	..	..	6
Mechanical Design I.....	575	150	..	4	..	..
*Physical Metallurgy.....	670	50	1	..	2	..
Technical Paper.....	840	100	..	2	..	..
*Differential Equations.....	1260	100	2	2	..	..
Engineering Reports.....	1560	50	1	1	..	..
Engineering Practice.....	1561	50	..	2	..	..
Total.....		1250	16	17	17	17

*Session 1960-61 only.

Mechanical Engineering (Regular Course)

FIFTH YEAR

(for 1960-61 only)

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
Strength of Materials.....	391	50	2	..	..	..
Experimental Mechanical Engineering.....	581	150	2	..	6	6
Industrial Engineering II.....	583	150	2	2	3	3
Applied Thermodynamics II.....	593	150	2	2	3	3
Heat Transfer.....	594	50	..	2	..	..
Mechanical Design II.....	595	150	2	2	3	3
Fluid Dynamics.....	596	125	2	2	1	1
Dynamics of Machines.....	597	125	2	2	1	1
Technical Paper.....	850	100	..	..	..	..
Engineering Practice II.....	1580	50	2	..	..	..
Engineering Law.....	1581	50	2	..	..	..
Total.....		1150	18	12	17	17

CURRICULUM IN MECHANICAL ENGINEERING

MECHANICAL SCIENCES OPTION

The course of study in the Mechanical Sciences option is designed to give much more emphasis on the underlying fundamentals of engineering. A broad mathematical and physical foundation is provided, giving the students a good point of departure for advanced engineering studies in a large number of fields. In the final year, training is given to the student in the application of these fundamentals to engineering problems, by seminar discussions and the preparation of a thesis.

The training is designed for those who wish to prepare themselves for creative engineering and for graduate and research work.

Registration will be restricted to students whose general background, and whose standing in the Second year, particularly in Mathematics, indicate that they can profit by it. Generally a first class standing will be required. Students who fail to maintain a satisfactory standing in the Third year must revert to the regular Fourth year Mechanical Engineering course. Reversion at the end of the Fourth year involves making up certain work missed. Students intending to register for this option should consult with the Chairman of the Department and obtain his approval prior to September 15th.

Mechanical Engineering (Mechanical Sciences Option)
THIRD YEAR

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
Mechanics.....	340	100	2	2	..	..
*Survey School.....	352	100	..	..	..	..
Strength of Materials.....	373	125	2	2	..	3
Technical Paper.....	830	100	..	..	..	..
Physical Metallurgy.....	670	50	1	..	2	..
Advanced Calculus.....	1240	150	3	3	..	..
Engineering Problems.....	544	50	..	..	3	3
Experimental Engineering.....	545	75	1	1	1	1
Differential Equations.....	1260	100	2	2	..	..
Advanced Heat.....	1342	100	2	2	..	..
Electricity and Atomic Physics..	1343	150	3	2	3	3**
Fluid Mechanics.....	573	50	2	..	..	..
Total.....		1150	18	14	9	8

*This School is held in the Spring at the end of the Second year, from about April 25th to May 25th, and a student must attend it before he may register in the Third year. Students entering the Third year from other universities may make special arrangements at the time of their application.

**Every two weeks.

Note: Students who achieve high standing in this Third year course may, if they wish, enter the Fourth year of Engineering Physics or the Applied Mechanics option of Civil Engineering, provided that they make up work in Electrical Engineering 441, and Physics 1346, or Surveying 350 and General Geology 1142, respectively.

ENGINEERING

Mechanical Engineering (Mechanical Sciences Option)

FOURTH YEAR

(for 1960-61 only)

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
Strength of Materials.....	373	125	2	2	..	3
Electronics and Communications.....	461	100	2	2	..	..
Electrical Laboratory.....	465	50	..	..	3	3
Mechanical Engineering Laboratory I.....	569	50	..	..	3	3
Theory and Design of Machines I.....	579	150	2	2	3	3
Applied Thermodynamics II...	593	150	2	2	3	3
Heat Transfer.....	594	50	..	2	..	..
Fluid Dynamics II.....	596	125	2	2	1	1
Physical Metallurgy.....	670	50	1	..	2	..
Technical Paper.....	840	100	..	..	..	..
Theory of Functions.....	1264	125	2	2	1	1
Engineering Practice I.....	1561	50	..	2	..	..
Total.....		1125	13	16	16	17

Mechanical Engineering (Mechanical Sciences Option)

FIFTH YEAR

(for 1960-61 only)

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
Engineering Analysis.....	393	100	2	2	..	..
Experimental Mechanical Engineering.....	581	150	2	..	6	6
Theory and Design of Machines II.....	598	150	2	..	3	3
Engineering Problems.....	599	300	..	..	12	12
Technical Paper.....	850	100	..	..	..	..
Mathematical Physics.....	1290	150	3	3	..	..
Total.....		950	9	5	21	21

CURRICULUM IN METALLURGICAL ENGINEERING

VI. METALLURGICAL ENGINEERING

REGULAR COURSE

The course of instruction provides training in the chemical, physical, and engineering subjects that form the basis for metallurgical engineering. In the later years, the various branches of theoretical and practical metallurgy are studied.

The course is designed for students who expect to be engaged in the smelting or refining of metals, the production of iron and steel, the melting and casting of metals and alloys, or in engineering work in which the mechanical properties and heat-treatment of metals and alloys are of fundamental importance.

In the Third year instruction is given in mathematics, mechanics, physics, chemistry, and metallurgical problems.

In the Fifth year instruction is given in engineering law, economics, pyrometallurgy, hydrometallurgy, physical metallurgy, strength of materials, electrical engineering, metallurgical design, and mineral dressing.

Laboratory accommodation is provided for graduate students who wish to do advanced work in metallurgy for the M.Eng. degree, or M.Sc. degree.

FIRST AND SECOND YEARS

As in other Engineering courses (see pages 1421 to 1423).

Metallurgical Engineering THIRD YEAR

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
**Materials of Engineering	342	50	1	1	..	..
Mechanics	340	100	2	2	..	..
*Survey School	352	100	..	..	..	..
Metallurgical Problems and Lab.	643	100	1	1	2	3
Technical Paper	830	100	..	..	..	..
Systematic Inorganic Chemistry	940	100	2	2	..	..
Inorganic Quantitative	944	150	1	1	6	6
Organic Chemistry	948	100	2	2	1	1
Calculus	1242	100	2	2	..	..
Physics	1340	150	2	2	3	3
Engineering Reports	1540	50	1	1	..	..
Total		1100	14	14	12	13

*Taken in four weeks following the close of the Second year. Students entering from other universities do this work in a special summer school entering Fourth or Fifth year (see page 1448).

**Session 1960-61 only.

ENGINEERING

Metallurgical Engineering

FOURTH YEAR

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
Inorganic Chemical Technology.	266	50	2	..	..	..
Strength of Materials.....	373	125	2	2	..	3
Mechanical Engineering.....	566	150	2	2	..	..
Mechanical Engineering Laboratory.....	569	..	..	..	3	3
Metallurgical Laboratory.....	662	50	..	..	3	3
Metallurgical Problems.....	664	50	..	..	..	4
Metallurgy of Iron and Steel...	666	50	1	1	..	..
Metallurgical Unit Operations..	668	75	2	..	2	..
Mineral Dressing.....	763	100	1	1	3	3
Technical Paper.....	840	100	..	..	..	..
Chemical Thermodynamics....	964	100	3	3	..	..
Mineralogy.....	1161	75	2	..	3	..
Differential Equations.....	1260	100	2	2	..	..
Engineering Practice.....	1561	50	..	2	..	..
Total.....		1075	17	13	14	16

Metallurgical Engineering

FIFTH YEAR

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
Strength of Materials.....	391	50	2	..	..	..
Elements of Electrical Engineering.....	470	100	2	2	..	..
Electrical Engineering Laboratory.....	472	50	..	..	3	3
Metallurgical Laboratory.....	682	75	..	..	6	3
Hydrometallurgy.....	683	175	3	3	1	1
Extractive Metallurgy.....	684	150	2	2	2	2
Metallurgical Colloquium.....	688	25	..	1	..	3
Metallurgical Design.....	690	25	..	..	..	3
Metallurgical Instrumentation..	691	75	..	2	..	1
Physical Metallurgy.....	694	125	2	2	1	2
Metallurgical Unit Operations..	696	75	..	2	..	..
Mineral Dressing.....	797	75	2	..	3	..
Technical Paper.....	850	100	..	..	..	..
Engineering Practice II.....	1580	50	2	..	..	..
Engineering Law.....	1581	50	2	..	..	..
Total.....		1200	17	14	16	18

CURRICULUM IN METALLURGICAL ENGINEERING

METAL SCIENCES OPTION

The courses of study in the metal sciences option offer a more rigorous training in mathematics, electronics and chemistry than is given in the regular metallurgical engineering course. A very thorough training in mathematics is provided permitting more intensive treatment of the technical phases of both chemical and physical metallurgy. Of necessity certain courses must be eliminated but the training will particularly fit students for advanced technical work and for graduate and research work in metallurgy.

Students accepted into this option may revert to the regular course on the completion of the work of the previous year. Students who make only low pass standing will be required to revert.

Registration for this option will be restricted to students whose general background and high academic standing indicate that they can profit by it. Students who wish to register for this option must consult with the Chairman of the Department, and obtain his approval prior to September 15th.

FIRST AND SECOND YEARS

As in other Engineering courses (see pages 1421 to 1423).

Metallurgical Engineering (Metal Sciences option)

THIRD YEAR

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
Mechanics.....	340	100	2	2	..	..
*Survey School.....	352	100	..	..	..	..
Metallurgical Problems and Laboratory.....	643	100	1	1	2	3
Technical Paper.....	830	100	..	..	..	..
Systematic Inorganic Chemistry.....	940	100	2	2	..	..
Inorganic Quantitative Analysis.....	954	100	1	1	3	3
Advanced Calculus.....	1240	150	3	3	..	..
Differential Equations.....	1260	100	2	2	..	..
Physics.....	1340	510	2	2	3	3
Engineering Reports.....	1540	50	1	1	..	..
Total.....		1050	14	14	8	9

*Taken in four weeks following the close of the Second year. Students entering from other universities do this work in a special summer school before entering Fourth or Fifth year (see page 1448).

ENGINEERING

Metallurgical Engineering (Metal Sciences option)

FOURTH YEAR

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
Strength of Materials.....	373	125	2	2	..	3
Electrical Laboratory.....	465	50	..	..	3	3
Electronics and Communica-	461	100	2	2	..	..
tions.....	662	50	..	..	3	3
Metallurgical Laboratory.....	664	50	..	..	..	4
Metallurgical Problems.....	666	50	1	1	..	..
Metallurgy of Iron and Steel..	668	75	2	..	2	..
Metallurgical Unit Operations..	763	100	1	1	3	3
Mineral Dressing.....	840	100	..	..	..	..
Technical Paper.....	964	100	3	3	..	..
Chemical Thermodynamics....	1264	125	2	2	1	1
Theory of Functions.....	1561	50	..	2	..	..
Engineering Practice I.....						
Total.....		975	13	13	12	17

Metallurgical Engineering (Metal Sciences option)

FIFTH YEAR

SUBJECT	Course Number	Weighted Mark	Lecture hours per week		Laboratory, etc. hours per week	
			First term	Second term	First term	Second term
Strength of Materials.....	391	50	2	..	..	..
Engineering Analysis.....	393	100	2	2	..	..
Hydrometallurgy.....	680	150	3	3	..	..
Extractive Metallurgy.....	681	100	2	2	..	3
Metallurgical Laboratory.....	682	75	..	..	6	..
Metallurgical Colloquium.....	688	25	..	1	..	..
Metallurgical Design.....	690	25	..	..	..	3
Metallurgical Instrumentation..	691	75	..	2	..	..
Physical Metallurgy.....	693	100	2	2	..	..
Studies in Metallurgical					6	3
Processes.....	695	75	..	2	..	2
Metallurgical Unit Operations..	696	75	..	..	..	..
Technical Paper.....	850	100	..	..	..	..
Engineering Law.....	1581	50	2	..	..	..
Engineering Practice II.....	1580	50	2	..	..	..
Total.....		1050	15	14	12	14

VII. MINING ENGINEERING

The technical requirements of the mining engineer cover the field of basic engineering and geological knowledge. In the junior years of the course, in common with other branches of engineering, emphasis is placed on mathematics, physics, and chemistry. On this background a comprehensive training in engineering and geological principles is superimposed. Thus the course, in addition to preparing students for the varied technical appointments available in the mineral industry, offers a well rounded engineering curriculum.

Timetable permitting, and with the approval of Faculty, some variation of the final year curriculum is permitted in the case of students wishing to emphasize geology, geophysics, mineral dressing, or other specialized branch.

Three scholarships of \$500 each are available to undergraduate students in Mining Engineering. Two of these are presented by the Iron Ore Company of Canada and one by the American Smelting and Refining Company. A further scholarship of \$400 is presented by Mobil Oil of Canada Ltd. and preference in awarding it is given to students in Mining Engineering. (*See Scholarship Announcement.*)

Facilities are available for graduate students undertaking advanced work in many of the specialized branches of the mineral industry. The Department possesses two Research Fellowships open to graduates of the University who show suitable ability. (*See Scholarship Announcement.*)

Refer to page 1416 for regulations regarding physical examination.

FIRST AND SECOND YEARS

As in other Engineering courses (see pages 1421 to 1423).

ENGINEERING

Mining Engineering THIRD YEAR

SUBJECT	Course Number	Weighted mark	Lecture hours per week		Laboratory etc., hours, per week	
			First term	Second term	First term	Second term
**Materials of Engineering.....	342	50	1	1	..	..
Mechanics.....	340	100	2	2	..	..
Surveying.....	350	50	2	..	..	..
*Survey School.....	352	100	..	..	2	..
**Physical Metallurgy.....	670	50	1	..	..	..
Theory of Measurements.....	740	25	1	..	..	..
Technical Paper.....	830	100	..	2	..	..
Systematic Inorganic Chemistry	940	100	2	2	..	..
Inorganic Quantitative						
Analysis.....	954	100	1	1	3	3
General Geology.....	1142	125	2	2	2†	2
Mineralogy.....	1144	150	2	2	3	3
Calculus.....	1212	100	2	2	..	..
Physics.....	1340	150	2	2	3	3
Engineering Reports.....	1540	50	1	1	..	..
Total.....		1200	18	15	11	11

*Taken in four weeks following the close of the Second year. Students entering from other universities do this work in a special summer school before entering Third year (see page 1448).

**Session 1960-61 only.

***Commencing 1961-62.

†During the first few weeks the laboratory work is replaced by field excursions.

Mining Engineering FOURTH YEAR

SUBJECT	Course Number	Weighted mark	Lecture hours per week		Laboratory etc., hours, per week	
			First term	Second term	First term	Second term
Elements of Structural Design..	360	75	..	2	3	2
Hydraulics.....	364	75	2	..	..	3
Strength of Materials.....	373	125	2	2	..	..
(1) Survey School.....	377	100	..	..	..	..
Mechanical Engineering.....	566	150	2	2	..	..
Mechanical Engineering Laboratory.....	567	..	..	..	3	3
*Physical Metallurgy.....	670	50	1	..	2	..
Mine Mapping and Theory of Measurements.....	760	50	..	1	..	2
Mine Surveying.....	761	50	2	2	..	..
Mine Engineering I.....	762	100	2	2	3	3
Mineral Dressing.....	763	100	1	1	2	2
Ore Analysis.....	764	75	1	1	..	..
Technical Paper.....	840	100	..	..	3	..
Petrology.....	1164	75	2	..	..	..
(2) Summer School (Field Geology)	1165	75	..	..	..	3
Structural Geology.....	1166	75	..	2	..	..
Engineering Practice I.....	1561	50	..	2	..	..
Total.....		1325	15	15	16	18

(1) Taken in two weeks following the Third year session.

(2) Taken in two weeks following two weeks of survey Summer School 377.

*Session 1960-61 only.

SUMMER SCHOOLS

Mining Engineering

FIFTH YEAR

SUBJECT	Course Number	Weighted mark	Lecture hours per week		Laboratory etc., hours per week	
			First term	Second term	First term	Second term
Electrical Engineering.....	470	100	2	2	..	..
Electrical Engineering Laboratory.....	472	50	..	..	3	3
General Metallurgy.....	686	100	2	2	..	..
Mine Design.....	782	125	..	..	6	6
Mine Finance and Cost Control.....	784	50	..	2	..	..
Mining Colloquium.....	786	25	..	1	..	..
Mining Engineering II.....	788	125	2	3	..	..
Mining Engineering Problems.....	790	50	..	..	2	2
(1) Summer School (Field Trips).....	794	..	..	..	..	..
Mineral Dressing.....	797	75	2	..	..	..
Mineral Dressing.....	798	50	..	1	3	..
Technical Paper.....	850	100	..	..	..	3
Geology of North America.....	1180	100	2	2	..	..
Ore Deposits.....	1182	150	2	2	..	3
Geophysics.....	1360	50	2	..	..	..
Engineering Practice II.....	1580	50	2	..	..	..
Engineering Law.....	1581	50	2	..	..	..
Total.....		1250	18	15	14	17

(1) Normally taken in two or three weeks at the close of Fourth year.

SUMMER SCHOOLS

Undergraduates are required to attend Regular Summer Schools as specified below. The times at which they are held, and the work covered, are set forth in detail under the course numbers referred to.

See note under fees, page 1416.

Except as noted, classes are expected to begin on or about April 25th and close about May 24th.

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REGULAR SUMMER SCHOOLS

CURRICULUM	Students Entering					
	Third year		Fourth year		Fifth year, and Sixth year Architecture	
	Course	Page	Course	Page	Course	Page
Architecture.....	352	1465	..	..	{165 166	1455 1455
Civil Engineering:						
Regular Course.....	352	1465	377	1467	*394	1470
Applied Mechanics option..	352	1465	..	..	..	..
Electrical Engineering.....	352	1465	..	..	..	..
Mechanical Engineering.....	352	1465	..	..	..	..
Metallurgical Engineering....	352	1465	..	..	..	..
Mining Engineering.....	352	1465	{ 377 1165	1467 1484	794	1498
Engineering Physics.....	352	1465	..	..	..	..

*Extra.

SPECIAL SUMMER SCHOOLS

As it is seldom practicable for students admitted to advanced standing in McGill University from other colleges to attend the May Summer School preceding the work of the year to which they are admitted, the following arrangements have been made for such students, but it must be understood that they apply only to students who have not previously been in attendance in the Faculty of Engineering.

(a) Students entering Second year with Senior Matriculation standing must attend a school in Engineering Drawing 511 starting September 6th.

(b) Students entering the Third year from other universities, except in Chemical Engineering, are required to attend a Summer School in Surveying which opens on or about September 6th, 1960 preceding the work of the Session. Additional work will be required in the following year to complete the course.

(c) Students entering the Fourth year in the course in Civil or Mining Engineering are required to attend a Summer School in Surveying which opens on or about September 6th, 1960.

(d) Students entering the Fourth year in Mechanical Engineering are required to attend a Special School in Machine Shop which opens on or about September 6th, 1960.

(e) Students entering the Fifth year in Mining Engineering are required to submit evidence that they have had at least six months' practical experience in Mining Work.

(f) Students entering Fifth year Architecture are required to attend Sketching School 165 commencing September 10th, 1960.

EMPLOYMENT AND TECHNICAL PAPERS

EMPLOYMENT

Students in Engineering are required to submit to the Faculty evidence of having had at least six months of suitable experience in practical engineering work before receiving their degrees (see page 1420). For students in Architecture the requirement is six months of experience appropriate to the profession. Evidence of employment must be submitted on forms obtainable at the Dean's Office, to be signed by the employer. Forms reporting employment for the summer must be handed in at the Dean's Office not later than noon on Saturday, October 22nd, 1960.

TECHNICAL PAPERS

All students in Engineering and Architecture must submit Technical Papers 830, 840 and 850, on entering Third, Fourth, and Fifth years respectively. Students entering the Sixth year of Architecture must submit a paper 860, a report, with illustrations, on the student's final design project of the Fifth year.

Technical Papers are regarded as an integral part of the curriculum and a high standard is exacted. They are judged on their subject matter, on their literary style, and on the evidence they show of thoughtful observation and preparation.

Technical Papers are normally written on a topic drawn from the experience of the student during his summer work. Students should take advantage of every opportunity during their summer engagements to gather material for their essays. If a student's summer experience does not provide a reasonable topic for an essay, he may visit and inspect any engineering or scientific project in the course of construction or operation and write upon his observations.

No essay compiled entirely from matter already published will be accepted from any student unless ACCOMPANIED by a letter of approval from the Chairman of his Department, or, in the case of essay 830, written in the summer following Second year, from the Chairman of the Department naturally concerned with the topic upon which the student proposes to write. Such approval is not usually given unless the proposed essay will serve a really useful purpose by bringing together important information otherwise difficult of access.

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Data from books and from other sources, may, however, be used or even quoted verbatim in reasonable quantity, provided direct quotations are indicated, and acknowledgement and specific reference is made at the bottom of the page. Thanks for assistance, advice, drawings, photographs, and the like received by the writer from others should also be given under "Acknowledgements." In general, everything that is not of the student's knowledge and composition must be acknowledged.

A FOREWORD is required stating the source of the information used in the paper, such as summer employment, inspection trips, etc.

Papers should be from 2,000 to 4,000 words in length for students entering Third or Fourth year, and from 3,000 to 5,000 for students entering Fifth year. The student is therefore strongly advised to select a topic which can be treated with reasonable completeness within these limits.

Unless absolutely essential, it is not desirable to accompany essays with samples and specimens. Careful writing and adequate illustration will usually make these unnecessary. All drawings must be folded to $8\frac{1}{2} \times 11$ inch size.

Papers must be TYPEWRITTEN, double-spaced, on one side ONLY of $8\frac{1}{2} \times 11$ inch white paper of good quality, with a wide margin for binding, and enclosed in a standard cover obtainable from the University Book Shop.

RANKING OF TECHNICAL PAPERS

Technical Papers are ranked according to schedules A and B below. To achieve pass standing, a student must obtain at least 50% of the marks in each schedule separately.

A—Composition (50 marks)

Clarity, phraseology, style, grammar, spelling, definitions and terminology.

B—Content (35 marks)

Suitability, analysis, exposition, accuracy, completeness, illustrations.

Presentation (15 marks)

Foreword, neatness, arrangement, table of contents, sections and paragraphs, references, bibliography, typography.

After ranking, essays, except those to be considered for prizes or those which must be rewritten, are returned to the writers. Essays considered for prizes, but not awarded any, are also returned, but at a later date.

Prize-winning papers become the property of the Engineering Undergraduates' Society and are filed for permanent reference in the Engineering Library. Any student who does not wish to surrender his essay should, therefore, indicate by letter ATTACHED THERETO that it is not to be considered for a prize.

Students are encouraged to submit their essays to the Engineering Institute of Canada, to the Canadian Institute of Mining and Metallurgy, to the Institute of Radio Engineers, or to the Society of Chemical Industry in competition for prizes offered by these institutes. A student wishing to enter one of these competitions should so indicate by letter ATTACHED TO his essay.

Technical Papers, unless submitted by mail, must be handed in before the close of Registration (4:00 p.m.) on Registration Day, Monday, September 23rd, 1960, to the staff member or other officer by whom the student is registered. Essays may be submitted by mail to the Dean's Office, Engineering Building. They must be received before 1 p.m. on Saturday, September 17th, 1960.

Students who do not submit or hand in summer essays before these stated times will be regarded as having failed the essay for their year.

Descriptions of Courses

SCHOOL OF ARCHITECTURE

The School of Architecture is under the administrative jurisdiction of the Faculty of Engineering.

Director and Professor

JOHN BLAND

Associate Professors

PETER COLLINS

HAROLD SPENCE-SALES

Assistant Professors

WATSON BALHARRIE

JOHN SCHREIBER

DOUGLAS SHADBOLT

GORDON WEBBER

STUART A. WILSON

Sessional Lecturers

DONAT RICHARD

GENTILE TONDINE

HUGH VALENTINE

ORSON WHEELER

ENGINEERING

SECOND YEAR

113. **ARCHITECTURAL DRAWING.** Descriptive geometry; orthographic projection; simple pictorial representation; perspective by various methods; shades and shadows; interpenetrations; developments; lettering.
1 lecture and 6 hours problems per week, First term.

Professor Schreiber

114. **ELEMENTS OF DESIGN.** Basic visual elements, line, form, colour, texture. Practical experiments in water colour, tempera, dyes and inks.
1 lecture and 6 hours problems per week, second term.

Professor Webber

116. **HISTORY OF CLASSIC, BYZANTINE AND MEDIAEVAL ARCHITECTURE.** A survey of the development of architectural manners in Europe.
2 lectures per week, session.

Professor Collins and Mr. Wheeler

117. **ARCHITECTURAL REPORTS.** Students are required to prepare a series of papers during the session on specific aspects of the history of architecture. These may be based upon references in literature or other available library records, or they may be studies of actual buildings. Related to Course 116.

Professor Collins

THIRD YEAR

130. **ARCHITECTURAL REPORT.** Related to Course 134. Continuation of Course 117.

Professor Collins

131. **BUILDING CONSTRUCTION.** Simple architectural form is studied in terms of human purpose, and building materials and techniques. A number of small architectural and construction problems are given to intensify the student's grasp of spatial relationship and constructive sense. An intensive study of a small project is carried out. The design is evolved from the basic conditions of a given problem. Presentation drawings are made and then a set of working drawings is prepared. These are done in order to unfold gradually wood and masonry construction techniques. A small scale model showing all structural members of the building frame is constructed by each student. Studies in line and colour are made of all projects. Practical experiments in construction are carried on in the building laboratory.

1 lecture and 15 hours problems per week, first term;

1 lecture and 18 hours problems per week, second term.

Professors Wilson and Shadbolt and Mr. Richard

Textbooks: Frame Construction Details (Nat. Lumber Mfg. Ass'n); Gay and Parker, Materials and Methods of Building Construction (Wiley); Graf, Data Sheets (Reinhold); Ramsey and Sleeper, Architectural Graphic Standards (Wiley).

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132. ELEMENTS OF DESIGN. Applications of colour and texture experiments to renderings of planes in space. Designing and producing three dimensional tactile structures and the applications of visual aids in the presentation of architectural projects.

3 hours per week, session.

Professor Webber

133. FREEHAND DRAWING AND MODELLING. Drawing, painting, modelling, and experiments in the forms and techniques of historic manners. Related to Course 135. Classes held in the Montreal Museum of Fine Arts.

3 hours per week, session.

Mr. Tondino

134. HISTORY OF 16TH, 17TH AND 18TH CENTURY ARCHITECTURE. A survey of important buildings in Italy, France and England. Related to Course 130.

2 lectures per week, session.

Professor Collins and Mr. Wheeler

830. TECHNICAL PAPER. (See page 1449).

FOURTH YEAR

145. CIVIC DESIGN. The elements of form in buildings; buildings and their surroundings; design in the urban setting.

1 lecture per week, session.

Professor Spence-Sales

146. ARCHITECTURAL REPORT. Related to Course 151. Continuation of Course 130, but the chosen subject should be related as far as possible to present-day problems.

Professor Collins

147. BUILDING CONSTRUCTION. Various structural systems and their architectural significance; construction and finish of walls, floors, ceilings, and roofs; provision for mechanical services; by-law requirements. In continuation of Course 131, students carry out a number of full scale mock-ups of parts of their design projects, thus familiarising themselves with architectural detail and workmanship. In the studio, detailed working drawings of one of the projects are prepared. Related to course 148.

1 lecture per week, session; 6 hours problems per week, first term.

Professors Balharrie and Shadbolt and Mr. Richard

Textbooks: Huntingdon, Building Construction (Wiley); National Building Code (Queen's Printer).

148. DESIGN, CLASS A. Design and planning aspects of buildings of timber, load bearing masonry and simple frame. Students are given 4 to 5 specific problems during the session, covering buildings of domestic, recreational, commercial or civic character. Each problem is discussed in general terms of functional requirements and visual expression with

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reference to siting, structure and the use of materials. Research is carried out into similar types of buildings existing in Canada and elsewhere and preliminary studies are presented for criticism and comment. After this, a set of final presentation drawings is prepared including perspectives and design details to a large scale. 5 to 6 one-day problems of architectural or purely decorative character are introduced during the session to develop the imagination and the ability to produce quick, effective presentation drawings.

9 hours per week, first term; 12 hours per week, second term.

Professor Schreiber

150. **FREEHAND DRAWING AND MODELLING.** Drawing, painting and modelling with practical experiments in design form. Continuation of Course 133. Classes held in the Montreal Museum of Fine Arts.

3 hours per week, session.

Mr. Tondino

151. **HISTORY OF MODERN ARCHITECTURE.** The architectural consequences of the Industrial Revolution; development of new materials and techniques of construction, of new social requirements in a changed environment; the psychology of stylistic revivalism; the divorce between architecture and engineering; the changing role of the architect, etc. Despite the recent birth of a new style, the student is encouraged to regard the dynamic interaction of social and technological forces as a continuing process in which he himself is involved and towards which he should adopt a positive viewpoint.

2 lectures per week, session.

Professor Collins

162. **DESIGN WORKSHOP.** Study of light in relationship to architecture; model-making for light experiments; photographic recordings; photographs. Design of structures to illustrate objects in spatial relationship; solid, linear, and transparent objects.

3 hours per week, session.

Professor Webber

840. **TECHNICAL PAPER.** (See page 1449.)

FIFTH YEAR

152. **SOCIAL OBSERVATION FOR ARCHITECTS.** Architecture in cultural perspective; community planning and culture change. Ethnic groups in the urban community. Characteristic patterns of race relationships, and the requirements of such groups for housing. Slum organization; personality types and characteristic social organization in designated segments of the community. The general patterns of the urban community; processes of growth and change. The role of interest groups, pressure

ARCHITECTURE

groups and communication in the development of the urban community. Architecture and the organization of work; types of job openings for architects. Types of careers and stages of careers among architects.

2 hours conference per week, session.

Mrs. Carisse and members of Staff, Department of Sociology

160. ARCHITECTURAL REPORT. Related to Course 163. Continuation of Course 146. *Professor Bland*
161. DESIGN, CLASS B. Continuation of course 148. Problems are of more complex nature structurally and from the planning point of view. One problem is carried through to working drawings and more detailed consideration of structure.
1 lecture and 17 hours problems per week, session. *Professor Shadbolt*
163. HISTORY OF ARCHITECTURE IN CANADA. French, British and American influences in the Maritime Provinces, Quebec and Ontario. Course is related to Course 160.
2 lectures per week, session. *Professor Bland*
164. PLANNING. Elements of town planning; surveys of selected districts of Montreal. The course consists of environmental studies directed at a wider understanding of architectural and civic design.
2 lectures per week, session. *Professor Spence-Sales*
165. } SKETCHING SCHOOL. Students are required to attend two sketching
166. } schools during their course. The school is usually conducted out of town so that students are given the opportunity of examining and making graphic records of an unfamiliar district. About 10 days; opening date Saturday, September 10th, 1960. *Professors Webber and Wilson*
178. DESIGN WORKSHOP. Special experiments in which the individual student presents a subject as a model, such as a theatre stage, a small house, furniture, a mural, a pamphlet, etc.
3 hours per week, first term. *Professor Webber*
850. TECHNICAL PAPER. (See page 1449.)

SIXTH YEAR

175. ARCHITECTURAL REPORT. Related to Course 179. Continuation of Course 160. *Professor Bland*
176. DESIGN, CLASS C. Complex buildings or groups of buildings usually including a housing problem and a commercial or a public building.

ENGINEERING

Diploma design for graduation is done in the second term. The subject is selected by the student, but must be presented for approval before January 3rd each year; presentation must be in the form of a written report and preliminary plans.

24 hours problems per week, session. *Professor Bland, staff and visitors*

177. DESIGN SEMINAR. This course provides an opportunity for the discussion of current design problems and notable buildings in Canada with their architects and in some cases owners or persons concerned with their operation. *Professor Bland, staff and visitors*

179. MONUMENTAL BUILDINGS. Points of view concerning significant buildings in the 19th and 20th centuries. A consideration of contemporary criticism. Related to Course 175.

2 lectures per week, session. *Professor Bland*

180. PROFESSIONAL PRACTICE. Essential characteristics and more important phases of the architect's work; relationship to the owner; responsibility; business conduct; fees; supervision; arbitration; issuing of certificates; competitions; standard forms of contracts; payment; liens; servitudes; public health; building regulations.

1 lecture per week, session. *Mr. Hugh Valentine*

181. SPECIFICATIONS. Principles of writing architectural specifications; discussion of actual specifications; essays on common building materials; practice in specifying for common trades.

1 lecture per week, session. *Professor Balharrie*

Textbooks: Sleeper, Architectural Specifications (Wiley); National Building Code (Queen's Printer); N.H.A. Specifications.

860. TECHNICAL PAPER. (See page 1449.)

DEPARTMENT OF CHEMICAL ENGINEERING

Professor J. B. PHILLIPS, *Chairman*
Assistant Professors W. J. M. DOUGLAS
K. A. SHELSTAD

Demonstrators
Special Lecturer WILLIAM GAUVIN

THIRD YEAR

240. CHEMICAL ENGINEERING PROBLEMS. Applications of physical and chemical principles to some fundamental problems in Chemical Engineering.

2 lectures and 3 hours problems per week, session. *Professor Phillips*

CHEMICAL ENGINEERING

830. TECHNICAL PAPER (See page 1449).

FOURTH YEAR

260. CHEMICAL TECHNOLOGY. Technology of chemical industries: acids; alkalis; gases; organic synthesis and pressure processes; petroleum products; wood pulp and synthetic fibres; materials of construction; flow-sheets; economic principles.

3 lectures per week, session.

Professor Phillips

Reference book: Shreve, Chemical Process Industries (McGraw-Hill)

262. CHEMICAL ENGINEERING LABORATORY I. Experiments in fluid flow, heat transfer, filtration, and nitration.

3 hours per week, session.

The Staff

264. ELEMENTARY CHEMICAL ENGINEERING. Stoichiometry, with applications in combustion and some manufacturing processes; thermodynamic properties of systems; physical chemistry of solutions; introduction to fluid flow and to heat transfer.

3 lectures per week, session.

Professor Shelstad

Textbook: Arnold, Chemical Engineering Stoichiometry (The Author); McCabe and Smith, Unit Operations of Chemical Engineering (McGraw-Hill).

265. PROBLEM PERIOD. Supervised problems in the subject matter of Courses 260, 262, 264, 268.

3 hours per week, session.

The Staff

266. INORGANIC CHEMICAL TECHNOLOGY. First term of Course 260, in part.

2 lectures per week, first term.

Professor Phillips

268. THERMODYNAMICS. The first law, including enthalpy balances, heats of reaction, flow processes; the second law; thermodynamic cycles and charts; elementary chemical reaction equilibria.

2 lectures per week, session.

Professor Douglas

Textbook: Weber, Thermodynamics for Chemical Engineers (Wiley).

840. TECHNICAL PAPER. (See page 1449.)

FIFTH YEAR

280. CHEMICAL ENGINEERING (A). Study of unit operations based on thermodynamics: heat transfer; evaporation; dimensional analysis; nomographic charts; assigned problems.

3 lectures per week, session.

Dr. Gauvin

ENGINEERING

Textbook: McCabe and Smith, Unit Operations of Chemical Engineering (McGraw-Hill).

282. CHEMICAL ENGINEERING (B). Study of unit operations based on diffusional processes: absorption; extraction; distillation; drying; humidification; assigned problems.

3 lectures per week, session.

Professor Douglas

Textbook: as for Course 280.

284. CHEMICAL ENGINEERING DESIGN. Methods and calculations in the design of chemical process equipment. Economic balance in processes.

2 lectures per week, session.

Professor Phillips

285. INSTRUMENTATION. Pressure and temperature instruments; principles of automatic control; pneumatic controllers.

2 lectures per week, first term.

286. CHEMICAL ENGINEERING LABORATORY II. Experiments in the topics discussed in Courses 280 and 282, with reports; supervised problem periods in related work.

3 hours laboratory and 3 hours problems per week, session.

Professors Douglas and Shelstad

287. APPLIED REACTION KINETICS. Measurement and calculation of rates of chemical reactions; order of reaction; energetics of reactions; catalysis; applications in design of reactors.

2 lectures per week, second term.

288. THERMODYNAMICS. Advanced topics in refrigeration and evaporation; physical equilibria and properties of non-ideal systems. Chemical reaction equilibria, equilibrium conversion, and estimation of equilibrium constants from thermal data.

2 lectures per week, session.

Dr. Gawin

Reference Book: Dodge, Chemical Engineering Thermodynamics (McGraw-Hill).

850. TECHNICAL PAPER (See page 1449.)

POSTGRADUATE COURSES

Graduates in Chemical Engineering may proceed, if their work has been of sufficiently high standard, to the Master's degree in Chemistry or in Chemical Engineering. See Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF CHEMISTRY

<i>Professors</i>	CARL A. WINKLER, <i>Chairman</i> C. B. PURVES L. YAFFE
<i>Associate Professors</i>	R. K. HOLCOMB J. H. MENNIE R. V. V. NICHOLLS A. S. ROSS H. I. SCHIFF A. TAURINS
<i>Assistant Professors</i>	G. C. B. CAVE J. T. EDWARD G. E. JUST M. ONYSZCHUK R. F. ROBERTSON A. SEHON
<i>Research Associates</i>	D. A. I. GORING O. MAASS R. ST. J. MANLEY S. G. MASON W. A. MUELLER A. A. ROBERTSON T. TIMELL
<i>Senior Instructor</i>	C. E. DROVER

FIRST YEAR

902 (Arts and Science 11). GENERAL CHEMISTRY. A general survey of Inorganic Chemistry. This includes Atomic and Kinetic-Molecular theory, the theory of Ionization, with elementary examples of ionic equilibrium, rates of chemical reaction, law of mass action, oxidation and reduction, the electromotive series of the metals, the Periodic Law and the Electronic theory of Valence. The preparation and properties of the more important elements and their compounds in relation to atomic and molecular structures are emphasized.

2 lectures per week.

Professors Just, Nicholls, Onyszchuk, Winkler and Yaffe

1 tutorial per week.

Professors Holcomb, Nicholls and Onyszchuk

Textbook: Luder, Vernon and Zuffanti, General Chemistry, 2nd ed. (Saunders).

Laboratory: The lectures are supplemented by descriptive and quantitative experiments, including volumetric analysis, illustrative of the important principles and theories.

3 hours per week.

Professors Holcomb, Nicholls and Onyszchuk

ENGINEERING

SECOND YEAR

922. PHYSICAL CHEMISTRY (ELEMENTARY). A survey of physico-chemical theory and experimental methods, with problems to illustrate physico-chemical principles and to provide practice in handling experimental data and dimension units.

2 lectures and 1 hour tutorial per week. *Professors Schiff and Schon*

Textbook: Glasstone, Elements of Physical Chemistry (Van Nostrand).

THIRD YEAR

940 (Arts and Science 21). INORGANIC CHEMISTRY. A systematic, detailed description of the properties of the elements and their compounds based upon the periodic classification of the elements. This includes an introduction to the relation between properties, structure and types of bonding.

2 lectures per week.

Professors Holcomb and Onyschuk

Textbook: Latimer and Hildebrand, Reference Book of Inorganic Chemistry (Macmillan).

944 (Arts and Science 23). INORGANIC QUANTITATIVE ANALYSIS (ELEMENTARY). Reactions of electrolytes in solution; ionization constant; solubility product constant; common-ion effect. Theory of gravimetric and volumetric precipitation; theory of indicators and acid-base titrations; oxidation-reduction methods.

Laboratory: Simple gravimetric determinations; typical volumetric procedures including precipitation, neutralization, and oxidation-reduction methods. All samples are solids which must be weighed and brought into solution by the student.

1 lecture and 6 hours laboratory per week.

Professor Mennie

Textbook: Kolthoff and Sandell, Quantitative Inorganic Analysis (Macmillan).

948 (Arts and Science 22). ORGANIC CHEMISTRY (ELEMENTARY).

(a) A survey of the special characteristics of carbon and its compounds, stressing the principal families of compounds and their reactions and dealing mainly with those involving single functional groups.

2 lectures and 1 tutorial per week.

Professors Nicholls and Purves

Textbook: to be announced.

(b) A commentary on the nomenclature, occurrence, preparation, properties, and uses of the more important classes of carbon compounds, and on the principles of functionality, homology and isomerism. A continuation of course (a) in greater detail, so as to include polyfunctional compounds.

CHEMISTRY

2 lectures and 1 tutorial per week.

Professors Nicholls and Purves

Textbook: to be announced.

- 950 (Arts and Science 22 laboratory). ORGANIC CHEMISTRY LABORATORY (ELEMENTARY). Experiments illustrative of Courses 948a and b.

3 hours per week.

Professor Edward

Laboratory Text: Fieser, Experiments in Organic Chemistry, 3rd ed. (Heath and Co.).

- 954 (Arts and Science 73). INORGANIC QUANTITATIVE ANALYSIS (ELEMENTARY). Reactions of electrolytes in solution; ionization constant; solubility product constant; common-ion effect. Theory of gravimetric and volumetric precipitation; theory of indicators and acid-base titrations; oxidation-reduction methods.

Laboratory: Representative gravimetric and volumetric laboratory procedures.

1 lecture and 3 hours laboratory per week.

Professor Mennie

Textbook: Kolthoff and Sandell, Quantitative Inorganic Analysis (Macmillan).

Course 954 is the same as course 944 except for a reduction in laboratory hours.

FOURTH YEAR

- 962 (Arts and Science 32). ORGANIC CHEMISTRY (ADVANCED). A course in descriptive organic chemistry at an advanced level. It develops and extends the material presented in Courses 948a and b. Special consideration is given to the following topics: polyfunctional compounds, aromatic substances.

2 lectures per week.

Professor Just

Textbook: to be announced.

Laboratory: (Arts and Science 32L).

3 hours per week.

Professor Just

Textbooks: Fieser, Experiments in Organic Chemistry, 3rd ed. (Heath and Co.); Shriner, Fuson and Curtin, The Systematic Identification of Organic Compounds, 4th ed. (Wiley).

- 964 (Arts and Science 35). CHEMICAL THERMODYNAMICS AND ELECTROCHEMISTRY. First and second laws, entropy, free energy, activity and fugacity in ideal and real solutions. Solutions of strong electrolytes. Electrode potentials, electrochemical cells, electrolytic conduction and electrolysis, specific and equivalent conduction, mobility and transport numbers, overvoltage and polarization.

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3 lectures per week.

Professor Robertson

Textbooks: Klotz, Chemical Thermodynamics (Prentice Hall); Lewis and Randall, Thermodynamics (McGraw-Hill); Glasstone, Introduction to Electrochemistry (Van Nostrand).

- 966 (Arts and Science 40). CHEMISTRY AND TECHNOLOGY OF HIGH POLYMERS. Organic (carbon) and inorganic (silicon) polymers; nature of polymeric molecules; relationship between molecular structure and physical, chemical, and mechanical properties; experimental methods for controlling and determining the structures of polymers; properties of commercially available materials; methods of fabrication.

1 lecture per week

Professor Nicholls

- 968 (Arts and Science 34L). PHYSICAL CHEMISTRY LABORATORY (INTERMEDIATE). Simple physico-chemical methods of investigating kinetic and thermo-dynamic properties of gases, liquids and solutions.

3 hours per week

Professor Ross

Textbook: Daniels, Matthews, Williams, Bender and Alberty, Experimental Physical Chemistry, 5th ed. (McGraw-Hill).

References: Livingston, Physico Chemical Experiments (Macmillan); Palmer, Experimental Physical Chemistry (Cambridge).

FIFTH YEAR

984. PHYSICAL CHEMISTRY LABORATORY (ADVANCED). Physico-chemical measurements related to the requirements of chemical engineering design and practice.

3 hours per week.

Professor Ross

Textbook: Daniels, Matthews, Williams, Bender and Alberty, Experimental Physical Chemistry, 5th ed. (McGraw-Hill).

References: Weissberger, Techniques of Organic Chemistry: Vol. I, Physical Methods; Vol. IV, Distillation; Vol. VIII, Investigation of Rates and Mechanisms of Reactions (Interscience); Reilley and Rae, Physico Chemical Methods (Van Nostrand).

- 986 (Arts and Science 46). COLLOID CHEMISTRY. Descriptive, thermodynamic and kinetic treatment of the properties of surfaces, sols, emulsions, and gels.

1 lecture per week.

Professor Robertson

References: Weiser, Colloid Chemistry, 2nd ed. (Wiley); Adam, Physics and Chemistry of Surfaces, 3rd ed. (Clarendon Press); Brunauer, Absorption of Gases and Vapors, Vol. I (Princeton Univ. Press); Alexander and Johnson, Colloid Science (Oxford); Harkins, Physical Chemistry of

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Surface Films (Reinhold); Jirgensons and Straumanis, Short Textbook of Colloid Chemistry; Gregg, The Surface Chemistry of Solids (Reinhold).

988. **ELECTROCHEMISTRY.** Electrolytic conduction and electrolysis; Faraday's laws; specific and equivalent conductance and measurement of conductance; mobility and transport number; theory of strong electrolytes; thermodynamics of cells; electrode potentials; concentration cells; liquid junction potentials; overvoltage and polarization phenomena.

1 lecture per week.

Professor Ross

Textbook: Glasstone, Introduction to Electrochemistry (Van Nostrand).

DEPARTMENT OF CIVIL ENGINEERING AND APPLIED MECHANICS

Professors

CARLETON CRAIG, *Chairman*

J. L. DE STEIN

Associate Professors

L. J. ARCAND

P. J. HARRIS

G. W. JOLY

S. A. NEILSON

ANDREJS PAKALNINS

V. W. G. WILSON

Assistant Professors

C. GOLDMAN

W. MATHISON

D. A. SELBY

R. YONG

Lecturers

J. ADJELEIAN

S. I. AHMED

J. STONEHEWER

Demonstrators

320. **MECHANICS.** Kinematics, dynamics and statics of particles; impulse, impact, and energy methods; friction; analytical and graphical analysis of simple beams and frameworks; graphical statics.

2 lectures and 2 hours problems per week, session.

Professor de Stein and Staff

Textbooks: Higdon and Stiles, Engineering Mechanics (Prentice-Hall); Timoshenko and Young, Engineering Mechanics (McGraw-Hill).

324. **SURVEYING.** Early practice and origin of instruments; the level—types and limitations; optics; direct and indirect levelling exercises; the compass and its uses; the transit—the vernier, horizontal and vertical angles, types of traverses, stadia; the chain and tape—uses and limitations;

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units of measurements; latitudes and departures; areas; simple circular curves.

2 lectures per week, second term. *Professor Arcand and Staff*

Textbooks: Breed, Surveying (Wiley); Kissam, Surveying (McGraw-Hill); Davis and Foote, Surveying (McGraw-Hill); Parker and McGuire, Simplified Site Engineering for Architects and Builders (Wiley).

THIRD YEAR

340. MECHANICS. Kinematics, dynamics and statics of systems of particles, and of rigid bodies; variable rectilinear and curvilinear motion; simple harmonic motion, translation and rotation of rigid bodies; internal forces, energy methods, impact, gyroscopes.

2 lectures per week, session. *Professor Joly and Staff*

Textbooks: Higdon and Stiles, Engineering Mechanics (Prentice-Hall); Timoshenko and Young, Engineering Mechanics (McGraw-Hill).

341. STRUCTURAL DRAWING. Introduction to layout and detail drawings for structures in steel, timber, and reinforced concrete.

3 hours per week, first term. *Professor Harris*

342. MATERIALS OF ENGINEERING. An account of the sources, winning, general properties, trade practices and economics of both non-metallic and metallic materials and their products used in engineering construction and in the manufacturing industries, with emphasis on those not discussed in more detail in subsequent courses.

The Metals section of the course considers the structure and engineering behaviour of metals; solidification theory and casting practice; fabrication methods; availability and costs. Special attention is given to the development and use of irons, steels and the non-ferrous alloys of engineering importance.

1 lecture per week, session.

Professors Pakalns and Yates

Textbook: University notes.

350. SURVEYING. Adjustments of level and of transit; theory and use of the polar planimeter; latitudes and departures; areas; plotting co-ordinates; partition of land; missing sides; stadia surveying; cross-sections, grids, and slope stakes; circular curves; vertical curves; the spiral; chaining errors and corrections.

2 lectures per week, first term.

Professor Arcand and Staff

Textbooks: Breed, Surveying (Wiley); Davis and Foote, Surveying (McGraw-Hill).

351. SURVEYING PROBLEMS. Earthwork calculations using polar planimeter; problems in surveying.

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3 hours per week, first term.

Professor Arcand and Staff

Textbook: Sloane and Montz, Elements of Topographic Drawing (McGraw-Hill).

352. SURVEY SCHOOL. Training in use of hand level; surveyor's compass; level and transit. Pacing and chaining of polygons; topographic details by offsets and by stadia; profiles; circular curves; calculations of areas; plotting of grid and topographic maps.

4 weeks' summer school in April and May. *Professor Arcand and Staff*

830. TECHNICAL PAPER (see page 1449).

FOURTH YEAR

360. STRUCTURAL DESIGN I. Beams; plate girders; columns; roof trusses; riveted and welded connections; working drawings; estimating quantities and costs.

2 lectures and 2 hours problems per week, first term (architects only).

2 lectures and 2 hours problems per week, second term.

Professors Joly and Selby

Textbooks: Williams and Harris, Structural Design in Metals (Ronald); Steel Construction (A.I.S.C.); Standard Specifications for Steel Structures for Buildings (C.S.A.).

- 362.⁷ FOUNDATIONS AND MASONRY. Soil structure, soil properties and characteristics, subsurface exploration methods, bearing capacity of soils, settlement and consolidation, lateral earth pressure theories, design of footings and retaining walls.

1 lecture per week, 3 hours problems per week, session. *Prof. Yong*

Textbook: Capper and Cassie, Mechanics of Engineering Soils (McGraw-Hill).

Reference Books: Tschebotarioff, Soil Mechanics, Foundations, and Earth Structures (McGraw-Hill); Terzaghi, Theoretical Soil Mechanics (Wiley); Taylor, Fundamentals of Soil Mechanics (Wiley).

363. FOUNDATIONS AND MASONRY. Similar to course 362.

Prof. Yong

1 lecture per week, session.

3 hours problems per week, second term.

364. HYDRAULICS AND LABORATORY. Properties of fluids; hydrostatics; measurement of flow with orifices, weirs and Venturi meters; Bernoulli's theorem; laminar and turbulent flow; flow in pipes and open channels; divided flow.

2 lectures per week, first term.

Professor Wilson

3 hours laboratory per week, first term.

Professor Wilson and Staff

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Textbook: Daugherty and Ingersoll, Fluid Mechanics, 5th ed. (McGraw-Hill).

368. MAP PROJECTIONS. Graphical determination of spherical triangles; spherical projections; construction of maps.

1 lecture and 2 hours problems per week, first term. *Professor Arcand*

371. HIGHWAY ENGINEERING. Surveys, grades, curvature, earthwork, paving materials, economics of location, location, project, and estimate.

2 lectures per week, first term.

3 hours problems per week, first term. *Professor Pakalnins*

Textbooks: Allen, Railway Curves and Earthwork (McGraw-Hill); Williams, Design of Railway Location (Wiley); Tratman, Railway Track and Trackwork (McGraw-Hill); Bruce, Highway Design and Construction (Int. Textbook Co.); Tschebotarioff, Soil Mechanics, Foundations, and Earth Structures (McGraw-Hill); University notes.

372. RAILWAY ENGINEERING. Surveys, grades, curvature, earthwork, velocity profile, economics of location and operation.

1 lecture per week, second term.

3 hours problems per week, second term. *Professor Pakalnins*

373. STRENGTH OF MATERIALS. Stress, strain, resilience, and elastic properties of materials; bending moment and shear diagrams; simple, fixed, and continuous beams; reinforced concrete beams; torsion and bending in shafts and springs; columns; bending combined with direct stress; elementary consideration of compound stresses; distribution of shear.

2 lectures per week, session.

3 hours laboratory per week, second term.

Professor de Stein and Staff

Professor Wilson and Staff

Reference books: Morley, Strength of Materials (Longmans Green); Timoshenko-MacCullough, Elements of Strength of Materials (Van Nostrand); Warnock, Strength of Materials (Pitman); Muhlenbruch, Experimental Mechanics and Properties of Materials (Van Nostrand).

376. SURVEYING AND ASTRONOMY. Surveying for construction; marine and box sextants; the alidade and its use; barometric and trigonometric levelling; hydrographic surveying; mine surveying; elements of geodetic surveying; historical and practical astronomy; solution of the ZPS triangle for azimuth, latitude, longitude, and time.

2 lectures per week, session.

Professor Arcand

Textbooks: Davis and Foote, Surveying (McGraw-Hill); Hosmer and Robbins, Practical Astronomy (Wiley); Rayner, Advanced Surveying (Van Nostrand); Kissam, Surveying for Civil Engineers (McGraw-Hill).

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377. SURVEY SCHOOL. Preliminary railway or highway survey with transit, profile, and topography parties; plane table, hand level, and stadia; spiral curves; cross-sections; simple triangulation networks; reciprocal levelling; soundings; current-meter surveys; introduction to mine surveying; small geological survey with Brunston compass and chain; astronomical observations.

4 weeks' summer school in April and May. *Professor Arcand and Staff*

840. TECHNICAL PAPER (see page 1449).

FIFTH YEAR

380. STRUCTURAL DESIGN II. Selection and design of members; riveted and welded connections; timber details and design; loading for bridge and building design; building frames; bridge design; economic factors in design.

1 lecture and 3 hours problems per week; first term

2 lectures and 5 hours problems per week; second term.

Professor de Stein

Textbooks: Sutherland and Bowman, Structural Design (Wiley); Williams and Harris, Structural Design in Metals (Ronald).

381. DYNAMICS AND VIBRATION. Rotating axes; Lagrange equations; kinematics of vibration; complex representation; damping; resonance; coupled systems.

(Given in 1961-62 and alternate years.)

1 lecture per week, first term; 2 lectures per week, second term.

Professor Craig

Reference books: Den Hartog, Mechanical Vibrations (McGraw-Hill); Timoshenko, Vibration Problems in Engineering (Van Nostrand); Von Karman and Biot, Mathematical Methods in Engineering (McGraw-Hill).

One of courses 381 and 383 is given each year to both Fourth and Fifth year students in the applied mechanics option. The courses are given from the engineering point of view, with special attention to methods of approximation.

382. FOUNDATIONS AND REINFORCED CONCRETE. Design of footings, retaining walls, stability of slopes, and underpinning. Bearing piles, pile caps, sheet piling.

2 lectures per week and 3 hours problems per week, second term.

Professors Harris and Selby

Textbooks: As specified for Courses 362 and 390.

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383. FLUID MECHANICS. Dimensional analysis; kinematics of fluid flow; mechanics of resistance; boundary layers; open channel flow; dynamic lift and propulsion.

(Given in 1960-61 and alternate years.)

1 lecture per week, first term; 2 lectures per week, second term.

Professor Craig

Reference books: Rouse, Fluid Mechanics for Hydraulic Engineers (McGraw-Hill); Hunsaker and Rightmire, Engineering Applications of Fluid Mechanics (McGraw-Hill).

384. GEODESY. Adjustment and reduction of observations for horizontal and vertical control systems; figure of the earth; determination of azimuth, latitude, and longitude; level datum planes; gravimetric surveys; errors of observation; shoran trilateration.

Reference books: Hosmer, Geodesy (Wiley); Sharp, Geodetic Control Surveying (Wiley).

2 lectures per week, second term.

Professor Arcand

385. GEODETIC LABORATORY. Measurement of magnifying power, of eccentricity of circles, and of small angles with sextant; determination of gravity, of error of run of theodolite microscopes, of constant of steel tapes, and of scale value of level vials; investigation of errors of graduation of steel bars and tapes and of transit circles; testing aneroid barometers.

3 hours per week, second term.

Professor Arcand

386. HYDRAULIC MACHINES. Hydraulic problems in design and operation of hydro-electric projects; characteristics of impulse, reaction, and propeller turbines; specific speed; unit power; reduction of model tests; flow measurements for tests; centrifugal pumps.

2 lectures per week, second term.

Professor Wilson

Textbooks: Creager and Justin, Hydro-Electric Handbook (Wiley), Hunsaker and Rightmire, Engineering Applications of Fluid Mechanics (McGraw-Hill).

Reference book: Daugherty and Ingersoll, Fluid Mechanics, 5th ed. (McGraw-Hill).

387. MUNICIPAL ENGINEERING. Basic engineering and biological principles of the design and construction of water supply and purification systems, and sewerage and sewage disposal works, with selected problems.

2 lectures and 3 hours problems per week, first term.

2 lectures per week, second term.

Professor Pakalnis

Textbook: Steel, Water Supply and Sewerage (McGraw-Hill).

388. PHOTOGRAMMETRY AND LABORATORY. History and development; definitions, stereoscopy; parallax formulae; topographic mapping; photo interpretation; field control; tilt; radial line plotting; mosaics; oblique photography; mapping instruments.

2 lectures per week, second term; 3 hours laboratory per week, second term.

Textbook: Sharp, Practical Photogrammetry (MacMillan); L. G. Trorey, Handbook of Aerial Mapping and Photogrammetry (Macmillan).

Reference Books: Bagley, Aero Photography and Aero Surveying (McGraw-Hill); Gruber, Photogrammetry (Chapman and Hall); Manual of Photogrammetry (American Society of Photogrammetry).

390. REINFORCED CONCRETE. Analysis of reinforced concrete sections, design of continuous beams and slabs. Diagonal tension, bond and anchorage stresses. Economic considerations in framing systems.

2 lectures and 2 hours problems per week, first term. *Professor de Stein*

Reference books: Sutherland and Reese, Reinforced Concrete Design (Wiley); Standard Specifications for Concrete (C.S.A.); Large, Basic Reinforced Concrete Design (Ronald).

391. STRENGTH OF MATERIALS. Bending and deflection of beams loaded and supported in any manner; deflection due to shear; principle of least work applied to beams and to statically indeterminate problems; bending of curved bars and of unsymmetrical sections; elastic strains; relation between elastic constants; thick shells.

2 lectures per week, first term.

Professor Joly

Reference books: Morley, Strength of Materials (Longmans Green); Seely and Smith, Advanced Mechanics of Materials (Wiley).

392. THEORY OF STRUCTURES. Analysis of statically determinate frames under fixed or moving loads; influence lines, deflection of framed structures, braced arches of two and of three hinges; moment distribution, energy methods, principle of least work, analysis of rigid frames and hingeless arches, compound stresses, relations among elastic constants, stresses in curved beams and in thick tubes, theories of failures.

2 lectures and 5 hours problems per week, first term

2 lectures and 3 hours problems per week, second term. *Professor Craig*

Reference books: Sutherland and Bowman, Structural Theory (Wiley); Shedd and Vawter, Theory of Simple Structures (Wiley); Seely and Smith, Advanced Strength of Materials (Wiley).

393. ENGINEERING ANALYSIS. Applications of probability, statistics, queueing theory, linear programming, and games theory to problems in engineering design, control and systems analysis.

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2 hours per week, session.

Professor Craig

Reference Books: Goode and Machol, Systems Engineering (McGraw-Hill); Morse, Queues, Inventories and Maintenance (Wiley); Saaty, Mathematical Methods of Operations Research (McGraw-Hill).

394. SURVEY SCHOOL. Practical engineering astronomy, with emphasis on the determination of latitude and azimuth; geodetic astronomy including Bell's method; precise levelling; precise triangulation, with related problems and base line measurements. Equipment available includes transits, precise and semi-precise levels, optical theodolites of various types, sextants, radio equipment for time signals, Monroe calculators. 4 weeks' summer school in April and May. *Professor Arcand and Staff*

395. URBAN PLANNING. Urban transportation systems and related problems, general principles of planning, design and development of residential subdivisions.

1 lecture per week, session.

Professor Pakalns

Textbook: Kostka, Planning Residential Subdivisions (University of Manitoba 1954).

399. STRUCTURAL DESIGN II. Similar to course 380.

1 lecture and 3 hours problems per week, first term. *Professor de Stein*

850. TECHNICAL PAPER (see page 1449).

SURVEYING SUMMER SCHOOLS

Surveying field work is required of all students entering the Third year, except those taking Chemical Engineering, of students entering the Fourth year in the courses in Civil and in Mining Engineering. A Survey School for Fourth year students is held in the Spring after the Fourth year if twelve or more students signify their intention of attending it by the preceding January. All schools will begin in 1961 on or about April 25th and will continue for four weeks.

Students entering Third and higher years from other universities or from other faculties, who cannot attend the above courses in Field Work must attend Special Summer Schools, details of which are given on page 1418.

COURSES FOR THE DEGREE OF MASTER OF ENGINEERING

For particulars of graduate courses offered in Civil Engineering and qualifications for entering the Graduate Faculty, see the Announcement of the Faculty of Graduate Studies and Research.

The Miron Fellowship for postgraduate research in some field of Applied Science related to the concrete industry, and the John Bonsall

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Porter Scholarship in any field of research, are open to any student admitted for postgraduate work in the Department of Civil Engineering. For further particulars see the University Scholarships Announcement.

DEPARTMENT OF ELECTRICAL ENGINEERING

<i>Professors</i>	G. L. D'OMBRAIN, <i>Chairman</i> F. S. HOWES
<i>Professor (Post-retirement)</i>	G. A. WALLACE
<i>Associate Professors</i>	G. W. FARNELL T. J. F. PAVLASEK W. H. SCHIPPEL
<i>Assistant Professors</i>	T. H. BARTON R. P. COMSA
<i>Lecturer</i>	P. SYLVESTER
<i>Demonstrators</i>	

THIRD YEAR

441. CIRCUIT ANALYSIS. Similar to course 442, but with subject matter treated to a greater depth in the first term.
2 lectures per week, session. 3 hours problems alternate weeks, second term.
442. CIRCUIT ANALYSIS. The fundamentals of the analysis of the response of linear circuits to steady, time varying periodic and non-periodic currents and voltages.
2 lectures, 3 hours laboratory or problems, session.
830. TECHNICAL PAPER (see page 1449).

FOURTH YEAR

460. ELECTRICAL THEORY AND MEASUREMENTS. More advanced linear circuit theory including transient behaviour and circuits with distributed constants also simple filters. The fundamentals of electrical measurements including indicating instruments, simple bridges and oscilloscopes. The fundamentals of acoustics. The fundamentals of illumination.
3 lectures per week throughout the session.
461. ELECTRONICS AND COMMUNICATIONS. The fundamentals of thermionic, photo-electric, secondary and high field emission and of conduction through gases. The characteristics of rectifiers and small signal amplifiers

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using vacuum, gas-filled and solid-state devices. The piecewise-linear analysis of electronic circuits. Simple oscillators. Considerations of frequency, band-width, speed of signalling and the effect of noise on the communication of intelligence. Simple examples of communication systems.

2 lectures per week throughout the session.

462. ENERGY CONVERSION AND TRANSMISSION. Fundamental concepts of energy conversion in rotating electrical machines, transformers and rectifiers. Three phase circuits, transmission and distribution systems and methods of control. Simple considerations of direct-current and alternating current motors and generators. Characteristics and starting methods.

2 hours per week throughout the session.

463. LABORATORY. The work in the laboratory is designed to corroborate and supplement the work content of the lecture courses.

6 hours per week throughout the session.

464. TUTORIALS. These periods enable the student to consolidate the content of the lectures.

6 hours per week first term, 3 hours per week second term.

465. LABORATORY. The work in the laboratory is designed to corroborate and supplement the work content of lecture courses. Similar to course 463.

6 hours per week, session.

466. LINEAR NETWORK THEORY. Linear network analysis of lumped and distributed parameter systems. Elementary network topology, complex frequency variable and pole-zero representation. Frequency and time domain behaviour. Basic properties of lumped one-port and two-port networks with and without feedback. Introductory analysis of transmission lines.

2 lectures per week, session.

467. ELECTRONICS. Introduction to terminal characteristics of vacuum tube and semiconductor devices. The piecewise linear analysis of electronic circuits. Small-signal amplifiers using vacuum tubes and transistors. Gain bandwidth considerations in tuned and untuned amplifiers. Introduction to feedback amplifiers. Rectifiers. Oscillators.

2 lectures per week, session.

470. ELEMENTS OF ELECTRICAL ENGINEERING. Construction, principles of operation, and characteristic curves of both direct- and alternating-current generators and motors; single-phase, two-phase and three-phase machinery; direct-current and alternating-current transmission and

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distribution; transformers with star and delta connections; correction of power factor; rectifiers.

2 lectures per week, session.

Textbook: Gray and Wallace, Principles and Practice of Electrical Engineering (McGraw-Hill).

472. ELECTRICAL ENGINEERING LABORATORY. Operating characteristics of direct-current and of alternating-current generators and motors; transformers; circuits containing resistance, inductance, and capacitance: series and parallel resonance; power-factor correction.

3 hours per week, session.

840. TECHNICAL PAPER (see page 1449).

FIFTH YEAR

- 480M. ELECTRICAL THEORY AND MEASUREMENTS. Fourier series and Fourier integrals. Frequency response of quadripoles and simple filters. Transient response of linear systems, Laplace techniques. Distributed systems. Maxwell equations. Plane wave in free space. Guided waves. Radiation and radiating systems. Absolute and international standards. Direct current measurements. 60 c/s and audio-frequency measurements. Radio-frequency measurements. Photometric measurements.

3 lectures per week, session.

- 481M. ELECTRONIC DEVICES. Rectifier tubes; gas diodes and triodes; semiconductor diodes, etc. Rectifier circuits; single-phase and polyphase low and high power. D.C. and H.F. amplification. Vacuum tube and transistor low and high power amplifiers. Magnetic amplifiers. Wave-shaping and switching circuits. Oscillators. Electron ballistics with applications to micro-wave amplification; klystrons, magnetrons and travelling wave tubes.

2 lectures per week, session.

- 482M. CONTROL ENGINEERING. Open and closed loop control. Consideration of simple processes and their representation by linear differential equations. Representation of cascaded transfer lags and distance velocity lags. Determination of transient response. Closed loop stability as a function of the pole zero location. Nyquist, inverse Nyquist and Bode diagram representation. Components of servomechanism and process systems. Proportional integral and derivative control modes. Single loop and multiloop systems. Measurement transducers for mechanical and process systems.

2 lectures per week, first term.

- 483M. COMBINED ELECTRICAL LABORATORY.

6 hours per week, session.

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484M. COMBINED ELECTRICAL TUTORIAL.

4 hours per week, session.

485M. ENERGY CONVERSION AND TRANSMISSION. Classical treatment of d.c. shunt excited machine, induction motor and synchronous machine. Unified theory of rotating machines based on magnetically coupled circuits in motion. Steady state performance of d.c. machines, rotating amplifiers, induction motors (single and polyphase), synchronous machines and frequency changers. Transient performance of rotating amplifiers and the polyphase alternator.

Characteristics of overhead lines and cables. Determination of line constants. Equivalent π and T networks, rigorous solution. Symmetrical component theory. Short-circuit calculations. Circuit breaker theory. Principles of relay protection. Grounding and lightning protection. Consideration of system stability. Introductions to standards and CESA code.

3 lectures per week, session.

486M. COMMUNICATIONS. Signals and their spectra. Information and the rate of transmission of information. Noise. Modulation and detection. Transmission lines in communication circuits. Characteristics of radio waves. Audio frequency systems. Information in broadcasting, television and radar systems. Communication system planning.

3 lectures per week, session.

487M. ACOUSTICS. Radiation of sound. Acoustic components. Sound in enclosures. Noise control. Acoustic and vibration measurements and control. Psychoacoustic phenomena.

2 lectures per week, first term. 3 hours laboratory per week, first term.

488M. ELECTRICAL MACHINE DESIGN. Application of electrical theory to the design of electrical power equipment. Preliminary outline, and adjustment to meet specifications, followed by detail design and calculation of electrical constants and characteristics. Application of this procedure to D.C. motor and generator, synchronous machine, induction motor, transformer, reactor.

2 lectures per week, first term. 3 hours laboratory per week, first term.

489M. RADIO ENGINEERING DESIGN. Design of Class C amplifier; single and pushpull tank circuits; plate-modulated Class C amplifier; Hartley or Colpitts power oscillator. Design of impedance matching, power splitting and phase shifting networks for antennae. Design of directional antennae array.

2 lectures per week, second term. 3 hours laboratory per week, second term.

ENGINEERING PRACTICE

- 490M. CONTROL ENGINEERING DESIGN. Performance criteria. Bode diagram applied to design. Non-minimum phase systems. Root-locus technique. Simple statistical considerations. Effect of non-linearities, the use of time series methods. Role of analogue computer in design. The characteristics of servomotors, rotating amplifiers, hydraulic pumps and motors, etc.
2 lectures per week, second term. 3 hours laboratory per week, second term.
- 491M. ELECTROMAGNETIC FIELD THEORY. Revision of vector analysis, electrostatic and magnetostatic fields. Poisson's and Laplace's equation. Maxwell's equations, Poynting's equation, time varying fields.
- 492M. NUMERICAL ANALYSIS. A discussion of some of the methods available for the solution by numerical analysis of equations arising in linear and non-linear electrical engineering problems.
2 lectures per week, first term. 3 hours problems per week, first term.
- 493M. MATHEMATICAL MACHINE METHODS. The application of digital machines to the solution of equations arising in engineering problems using methods developed in course 492M.
2 lectures per week, second term. 3 hours problems per week, second term.
- 494M. ELECTRICAL THEORY AND MEASUREMENTS. Similar to course 480M. but second term lectures only.
2 lectures per week, session.
- 495M. COMBINED ELECTRICAL LABORATORY. Similar to course 483M, but reduced in content.
3 hours per week, session.
- 496M. ELECTRIC POWER SYSTEM ANALYSIS. Power network analysis and reduction for calculation of short-circuit currents and voltages and for system stability. Determination and use of impedances for generators, transformers, lines; particularly for zero-sequence current. General principles of transient stability analysis.
2 lectures per week, second term. 3 hours laboratory design per week, second term.
- 497M. POWER MODULATORS FOR CONTROL SYSTEMS. The theory and operation of saturable reactors, static and rotating magnetic amplifiers and controlled rectifiers.
2 lectures per week, first term. 3 hours laboratory design per week, first term.
498. ELECTRICAL SERVICES. Production, measurement, and control of light; design of lighting systems; electrical distribution in residential and

ENGINEERING

commercial buildings; Canadian Electrical Code. Given in alternate years.
(Given in 1960-61.)

2 lectures per week, first term.

850. TECHNICAL PAPER (see page 1449).

POSTGRADUATE COURSES

Graduate courses and research facilities are provided for students working for the degrees of M.Eng. and Ph.D. in Electrical Communication Engineering, and the degree of M.Sc. in Electrical Communications. Details are given in the Calendar of the Faculty of Graduate Studies and Research.

ENGINEERING PRACTICE

*Coordinator of courses and Lecturer in
Reports and Public Speaking*

S. A. NEILSON

Lecturers in Engineering Practice

R. G. K. MORRISON
R. N. MORRISON

Lecturers in Public Speaking

H. D. SPROULE
V. G. BAKER

Lecturer in

Engineering Law

HON. MR. JUSTICE G. S. CHALLIES

A series of related courses designed to acquaint the student with the background of his profession, its relation to others, and its place in society, with some consideration of matters not discussed in the professional courses.

THE ENGINEERING LIBRARY

To assist the student in these and in the professional courses, an extensive collection of books, reference material and periodicals is available for his use in the Engineering Library of the Faculty, situated in the Macdonald Engineering Building. The material is of a sufficiently advanced nature to serve for postgraduate research in Engineering.

Lectures are given by the Engineering Librarian to students in the First and Second years on normal library usage. Instruction is also given to Fourth year students by the Assistant University Librarian on the methodology of bibliographic search as related to research in technology.

FIRST YEAR

1500. CONCEPTS OF ENGINEERING. The course is designed to bring to Freshmen something of the concepts of engineering and will include some history,

ENGINEERING PRACTICE

some biography of great engineers and some indications of engineering philosophy.

One lecture per week, session.

The Dean and Staff

THIRD YEAR

1540. ENGINEERING REPORTS. Use of English, both oral and written, in engineering practice; mechanics of presentation; graphical representation; reproduction methods; job applications; specifications.

1 lecture per week, session.

Professor Neilson and Staff

Reference Book: French, Notes on Writing for Students in Engineering (McGill).

FOURTH YEAR

1560. ENGINEERING REPORTS. Continuation of Course 1540.

1 lecture per week, session.

Professor Neilson and Staff

1561. ENGINEERING PRACTICE I. The planning of investment in engineering projects and industrial plant by determining the quantitative basis for decisions while recognizing the importance of irreducible factors: supply and demand of different types of capital; interest rates; amortization; comparison of alternatives; break even point analysis; depreciation, taxation; financial statements; replacement; valuation; government projects.

2 lectures per week, second term.

Professors Morrison and Mr. R. N. Morrison

Textbook: To be announced.

FIFTH YEAR

1580. ENGINEERING PRACTICE II. Continuation of Course 1561.

2 lectures per week, first term.

Mr. R. N. Morrison

Reference Books: Boulding, Economic Analysis (Harper); Dean, Managerial Economics (Prentice-Hall); Grant, Principles of Engineering Economy (Ronald); Petrie, Taxation of Corporate Income in Canada (Univ. of Toronto Press); Specthrie, Industrial Accounting (Prentice-Hall).

1581. ENGINEERING LAW. Definition of law; different branches of law; distinction between civil and criminal law and between civil and common law; statutes, orders in council, and by-laws; Canadian constitutional law and organization of courts; civil law including marriage, tutorship, minority, and interdiction, types of property, rights of ownership, successions, wills and succession duties, expropriation, servitudes, obligations, responsibility for negligence, Workmen's Compensation Act, privileges, hypothecs, registration, prescription, marriage contracts and rights of

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women, sale, lease and hire, mandate, engineering and architectural contracts, responsibility of architect and builder; organization of engineering and architectural professions; patents, trademarks, industrial design and copyright; partnership and companies; mining; railways; expert evidence and evidence generally.

2 lectures per week, first term. *Hon. Mr. Justice G. S. Chollies*

Reference books: Nord, *Legal Problems in Engineering* (Wiley); Laidlaw Young, *Engineering Law* (University of Toronto Press).

DEPARTMENT OF ENGLISH

Professors

RALPH S. WALKER, *Chairman*
H. G. FILES
JOYCE HEMLOW

Associate Professors

ALEC LUCAS
HUGH MACLENNAN
ARCHIBALD MALLOCH

Assistant Professors

CONSTANCE BERESFORD-HOWE
CURTIS D. CECIL
LOUIS DUDEK
ALAN HEUSER
SLAVA KLIMA

Lecturers

MARTIN PUHVEL
HARRY M. RITCHIE
GORDON F. SLEIGH
WILLIAM T. BOOTH
KEITH BROWN

ALLAN J. HARTLEY
JANET M. BETANZOS-SANTOS
WILLIAM PROUTY
MARGERY E. SIMPSON
HUGH SPROULE
DONALD WALLACE

1000. ENGLISH LITERATURE (Arts and Science 100).

1 hour lecture and 2 hours tutorial conference per week, session.

Professor Walker and Members of the Department

1001. ENGLISH COMPOSITION (Arts and Science 100C).

1 hour tutorial conference per week, session.

Professor Lucas and Members of the Department

GEOLOGICAL SCIENCES

DEPARTMENT OF GEOLOGICAL SCIENCES

<i>Professors</i>	J. E. GILL, <i>Chairman</i> T. H. CLARK E. H. KRANCK
<i>Associate Professors</i>	J. S. STEVENSON C. W. STEARN V. A. SAULL
<i>Assistant Professors</i>	J. A. ELSON P. R. EAKINS

THIRD YEAR

1142 (Arts and Science 121). **GENERAL GEOLOGY.** The earth and the solar system; minerals and rocks composing the earth; erosive forces (weather, wind, rivers, waves, etc.) modifying its surface, and deformative processes (temperature changes, compression, etc.) affecting its subsurface structure; the origin and historical development of the earth and of living things. The economic aspects of all phases of the subject are treated throughout the course.

2 lectures and 2 hours laboratory per week, session. During October the laboratory work is replaced by field excursions.

Professors Clark and Stearn

Text: Leet and Judson, *Physical Geology*, 2nd ed. (Prentice-Hall, 1958).

Reference books: Agar, Flint, and Longwell, *Geology from Original Sources* (Holt, 1929); Dapples, *Basic Geology for Science and Engineering* (Wiley, 1959).

1144 (Arts and Science 221). **MINERALOGY.** Lectures: crystallography; physical properties and chemical composition of minerals; the more important ore-minerals, industrial minerals, rock-forming minerals; uses and sources of supply of economic minerals. Laboratory: study of crystal models and crystals; methods for the determination of minerals by blowpipe analysis and by related chemical tests; application of these plus physical characters in the identification of minerals.

2 lectures and 3 hours laboratory per week, session; one full day field trip in October.

Professor Stevenson

Text: Hurlbut, *Dana's Manual of Mineralogy* (Wiley, 1959).

FOURTH YEAR

1161. **MINERALOGY.** Same as first half of Geology 1144 (Arts and Science 221).

Lectures: crystallography.

Laboratory: study of crystal models and mineral crystals.

ENGINEERING

2 lectures and 3 hours laboratory per week, first term; one full day field trip in October.

Text: Hurlbut, Dana's Manual of Mineralogy (Wiley, 1959).

Professor Stevenson

1162 (Arts and Science 221). MINERALOGY. Same as Course 1144 except for laboratory.

2 lectures per week, session, and 3 hours laboratory per week, first term; one full day field trip in October.

Professor Stevenson

Textbook: Hurlbut, Dana's Manual of Mineralogy (Wiley, 1959).

1164 (Arts and Science 332, first term only). PETROLOGY. The common igneous, sedimentary, and metamorphic rocks; modes of occurrence; identification by field methods.

2 lectures and 3 hours laboratory per week, first term.

Professor Kranch

Textbook: G. W. Tyrrell, The Principles of Petrology, 1956.

1165 (Arts and Science 231c). FIELD GEOLOGY. Surface and underground geological field survey methods. Preparation of geological maps, sections, and reports from field notes, diagrams, aerial photographs, etc.

Two-week field school in May.

Professor Elson

Reference books: Lahee, Field Geology 5th ed. (McGraw-Hill); McKinstry, Mining Geology (Prentice-Hall).

1166 (Arts and Science 232b). STRUCTURAL GEOLOGY. A systematic survey of rock structures, their origins and practical importance.

2 lectures and 3 hours laboratory per week, second term.

Professor Eakins

Textbook: Billings, Structural Geology, 2nd ed. (Prentice-Hall).

1180 (Arts and Science 444). GEOLOGY OF NORTH AMERICA. The geological history, geomorphology, and mineral resources of the natural subdivisions of North America are described.

2 lectures per week.

Professors Elson, Stearn and Eakins

Textbooks: Geology and Economic Minerals of Canada, 4th ed. (Geological Survey of Canada, 1957); Clark and Stearn, The Geological Evolution of North America (Ronald Press, 1960).

FIFTH YEAR

1182 (Arts and Science 441). ORE DEPOSITS. Nature, origin, mode of occurrence and classification of deposits of metallic and non-metallic minerals; typical occurrences; geographical distribution.

MATHEMATICS

2 lectures per week, session, and 3 hours laboratory per week, second term.

Professors Gill and Eakins

Textbook: Bateman, Economic Mineral Deposits (Wiley).

DEPARTMENT OF MATHEMATICS

Professors

HERBERT TATE

CHARLES FOX

EDWARD ROSENTHALL

H. W. E. SCHWERTFEGER

P. R. WALLACE

Associate Professors

M. D. BURROW

IRWIN GUTTMAN

HYMAN KAUFMAN

JOACHIM LAMBEK

E. L. LOMON

T. F. MORRIS

R. T. SHARP

C. D. SOLIN

Assistant Professors

G. G. BACH

G. D. FINDLAY

MICHAEL HERSCHORN

SIDNEY KAHANA

H. C. KHARE

SAMUEL MELAMED

Z. A. MELZAK

NORMAN OLER

B. A. RATTRAY

DAVID SUSSMAN

W. D. THORPE

W. A. O'N. WAUGH

Lecturers

A. GOLDRICH

D. M. KINGSBURY

R. A. PATTERSON

MRS. H. W. E. SCHWERTFEGER

I. H. SHTERN

F. J. SHUPE

A. D. TEITLBAUM

FIRST YEAR

1200. TRIGONOMETRY. Radian measure, logarithms, definitions of the trigonometrical functions, relations between the trigonometrical functions, reduction of angles, addition formulae, transformations of sums and products, logarithmic solution of triangles, problems in heights and distances, inverse functions, solution of trigonometric equations, graphs.

ENGINEERING

3 lectures per week, first term.

Staff

1201. ALGEBRA AND ANALYTIC GEOMETRY. Variation, progressions, permutations and combinations, mathematical induction, binomial theorem, theory of quadratic equations. The analytic geometry of the straight line and circle.

3 lectures per week, second term.

Staff

Textbook: H. Tate, Elementary Mathematical Analysis (Pitman).

1202. ENGINEERING PROBLEMS. Problems and exercises in practical computations on course 1200 involving the slide rule, logarithms, approximations, graphs, etc.

2 hours per week, session.

Mr. Patterson and Staff

1203. ANALYTIC GEOMETRY. Conic sections and their simple properties, polar co-ordinates.

3 lectures per week, session.

Staff

Textbook: Robin Robinson, Analytical Geometry (McGraw-Hill).

1204. ENGINEERING PROBLEMS. Problems and exercises in algebra, trigonometry and analytic geometry.

2 hours per week, session.

Staff

SECOND YEAR

1220. ALGEBRA. Complex numbers, remainder theorem, partial fractions, interest, annuities, sinking funds, depreciation, valuation of mining property, bonds.

2 lectures per week, first term.

Staff

Textbook: T. S. Peterson, College Algebra (Harper).

1222. ANALYTIC GEOMETRY. Conic sections and their simple properties, introduction to three-dimensional analytic geometry, polar co-ordinates, parametric representation with applications to some elementary notions in statistics such as averages, standard deviation, coefficients of variation and correlation, determination of lines of best fit.

2 lectures per week, session.

Staff

Textbook: Robin Robinson, Analytical Geometry (McGraw-Hill).

1224. CALCULUS. Functional notation; limits; differentiation of elementary functions; maxima and minima; geometric applications; differentials; integration of standard functions; definite integrals; geometrical and physical applications.

3 lectures per week, session.

Staff

Textbook: T. S. Peterson, Elements of Calculus (Harper).

1226. MENSURATION AND SPHERICAL TRIGONOMETRY. Simple geometrical properties of lines, planes, and spheres; solid angles, dihedral angles and spherical triangles; the mensuration of the simpler rectilinear solids, cylinders, cones, and spheres. The sine and cosine laws, half-angle formulae, Napier's analogies, solution of oblique triangles, applications to astronavigation, Napier's rule of circular parts for right-angled triangles, law of species, solution of right-angled triangles.

2 lectures per week, second term.

Staff

Textbooks: R. Brink, *Spherical Trigonometry* (Appleton); Kern and Bland, *Solid Mensuration* (Wiley).

THIRD YEAR

1240. ADVANCED CALCULUS (Arts and Science 333). Partial differentiation, Jacobians and implicit functions, mean value theorems and Taylor series, indeterminate forms, line integrals, Green's and Stokes's theorems, definition of analytic functions of a complex variable, poles and residues, evaluation of definite integrals, the Gamma function and related definite integrals, vectors.

3 lectures per week, session.

Professor Melamed

Text: Franklin, *Methods of Advanced Calculus* (McGraw-Hill).

1242. CALCULUS. Curvature; partial differentiation; double and triple integrals with application to volumes, moments of inertia, etc.; Taylor's theorem; exponential and logarithmic series; hyperbolic functions; vectors.

2 lectures per week, session.

Professor Rosenthal and Staff

Textbook: T. S. Peterson, *Elements of Calculus* (Harper).

1246. VECTOR METHODS AND NOMOGRAPHY. Algebra of vectors, scalar and vector product of two vectors, multiple products, differentiation of vectors with applications to geometry and elementary mechanics, nomography.

1 lecture per week, session.

Professor Morris

Texts: G. Coffin, *Vector Analysis* (Wiley).

FOURTH YEAR

1260. DIFFERENTIAL EQUATIONS. Ordinary differential equations; methods of solution; elementary functions in complex variables; linear differential equations; especially with constant coefficients; vibration and electric circuit problems; setting up equations; solution by series and introduction to partial differential equations.

2 lectures per week, session.

Professor Kaufman and Staff

Textbook: Kells, *Elementary Differential Equations* (McGraw-Hill).

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1264. THEORY OF FUNCTIONS AND ADVANCED DIFFERENTIAL EQUATIONS. Conformal mapping; properties of analytic functions; residues; Cauchy's theorem; contour integrals; applications to ordinary and partial differential equations.

2 lectures and 1 hour problems, session *Professor Burrow*

Textbooks: R. V. Churchill, Introduction to Complex Variables and Applications (McGraw-Hill); R. V. Churchill, Fourier Series and Boundary Value Problems (McGraw-Hill).

1265. ADVANCED MATHEMATICAL METHODS. Review of complex variable theory, separation of partial differential equations, the Sturm-Liouville problem, eigenfunctions and eigenvalues, expansion in eigenfunctions, applications to the theory of vibrations and wave propagation, theory of scattering, diffusion, random processes and the transport equation.

3 lectures per week, session. *Professor* _____

Reference: J. Irving and N. Mullineux, Mathematics in Physics and Engineering (Academic Press).

- 1268 (Arts and Science 331). STATICS, DYNAMICS OF A PARTICLE, AND RIGID DYNAMICS. (Same as Course 1368.)

(a) Dynamics of a particle in one and two dimensions; motion of pair of particles; dynamics of rigid bodies; mass systems.

3 lectures per week, first term. *Professor F. R. Terroux (Physics)*

(b) Central orbits and scattering problems. Lagrangian and Hamiltonian equations. Rotations. Motion of rigid bodies, principal axes and moments of inertia. Normal modes of vibration and characteristic frequencies of oscillating systems, with applications to atomic and molecular physics.

3 lectures per week, second term. *Professor Lomon*

Textbooks: (a) Lamb, Statics (C.U.P.); Lamb, Dynamics (C.U.P.); (b) Slater and Frank, Mechanics (McGraw-Hill).

Reference books: Goldstein, Classical Mechanics, (Addison Wesley); Corben and Stehle, Mechanics (Wiley).

1269. ENGINEERING MATHEMATICS (Full course). Matrix algebra, Fourier analysis, Laplace Transforms, elementary functions of a complex variable, vectors, partial differential equations, eigenvalue problems.

3 lectures per week, session. *Professor Rosenthal*

FIFTH YEAR

- 1282 (Arts and Science 446a). FLUID DYNAMICS (Half course). The equations of motion, conservation of energy and circulation, the theory of images,

MECHANICAL ENGINEERING

complex potential and conformal transformation methods, especially solutions for vortex arrays and aerofoil theory, Stokes's stream function for three-dimensional solutions, the equations of viscous flow and boundary layer motion.

First term: 3 hours.

Professor Fox

Textbooks: Milne-Thomson, *Hydrodynamics* (Macmillan); Ramsey and Besant, *Hydro-Mechanics* (C.U.P.).

- 1284 (Arts and Science 448b). **ADVANCED DYNAMICS** (Half course). General formulation of Lagrangian dynamics, Hamiltonian equations. Least action principle. Canonical transformations. Poisson brackets. Hamilton-Jacobi theory. Introduction to special relativity in classical mechanics.

Second term: 3 hours.

Professor Wallace

Textbook: Goldstein, *Classical Mechanics*.

- 1290 (Arts and Science 441). **MATHEMATICAL PHYSICS**. (Same as Course 1390.) Vibration problems, eigenfunctions and eigenvalues, sound waves, scattering problems. Fourier transforms and application to problems of heat conduction and diffusion. Introduction to relativity and wave mechanics. Twelve lectures on topics arising in spectroscopy and nuclear physics will be given by Professor Foster.

3 hours per week, session.

Professor Sharp

Textbooks: Lindsay, *Concepts and Methods of Theoretical Physics* (Van Nostrand); Joos, *Theoretical Physics* (Blackie).

1291. **AN INTRODUCTION TO PROBABILITY AND STATISTICS** (Half course). Elementary probability laws, conditional probability, discrete probability distributions, samples and populations and methods of classifying data, acceptance sampling based on attributes, operating characteristics of sampling plans, some continuous distributions, characteristics of populations and samples, the normal distribution, acceptance sampling for continuous variables, quality control charts for attributes, means and ranges, tests of hypotheses and confidence regions for process parameters, least squares and regression analysis, analysis of variance and elementary design of experiments.

2 lectures per week, first term.

Professor Guttman

DEPARTMENT OF MECHANICAL ENGINEERING

Professors

WILLIAM BRUCE, *Chairman*

D. L. MORDELL

B. G. NEWMAN

Associate Professors

J. C. CHERNA

P. V. COVO

ENGINEERING

Assistant Professors

Lecturers

Special Lecturer

Sessional Lecturer

Demonstrators

Shop Instructor

A. R. EDIS
J. W. STACHIEWICZ
JIM. SWITHENBANK
A. L. THOMPSON
J. H. T. WU
J. M. FORDE
B. C. C. GLYNN
A. R. MCKAY
ERICH HERBST
FRANCIS HOWITT
S. S. HYDER
C. L. MURPHY
BERNARD SHORT
SEYMOUR LEVINE
To be appointed
To be appointed
F. G. CORRICK

FIRST YEAR

511. ENGINEERING DRAWING I. Lettering and free-hand sketching; use of instruments; orthographic projection: auxiliary and oblique views; dimensioning, sectioning, use of conventions; one-plane projections: axonometric, oblique; design.
3 hours per week, session.

Professor Covo and Staff

SECOND YEAR

521. ENGINEERING DRAWING II. Common machine elements: screws, welding, piping, gears, pulleys and structural shapes; drawing for mass production: accuracy control and surface quality; design problems requiring preparation of briefs: sketches, calculations and finished drawings.
3 hours per week, session.

Professor Covo and Staff

522. DESCRIPTIVE GEOMETRY. Adaptation of orthographic projection methods to three dimensional geometry; characteristics of lines and planes; graphical solution of problems involving position and true dimensions of geometrical figures; analysis of solids and other applications of three dimensional graphical geometry.
1 lecture and 2 hours drafting room per week, session.

Professor Cherna

THIRD YEAR

541. ENGINEERING DRAWING III. Production processes: correlation between processes and design; mechanical design problems requiring elementary stress analysis.
3 hours per week, first term.

Professor Covo and Staff

MECHANICAL ENGINEERING

542. **MECHANICS OF MACHINES.** Introduction to kinematics and mechanics of machines; velocities and acceleration of machine members. Stress is laid on fundamental aspects of kinematics to give the student the necessary background for subsequent work in dynamics of machines.

1 lecture, 3 hours problems per week, second term. *Professor Forde*

Reference books: Billings, Applied Kinematics (Van Nostrand); Guillet, Kinematics of Machines (Wiley); Hinkle, Kinematics of Machines (Prentice Hall).

543. **MACHINE SHOP I.** Lectures: tools, tool grinding, cutting action of tools, and safety precautions. Shopwork: marking off, layout, straight and taper turning, surface and gang milling, and use of dividing head (plain indexing).

3 hours per week, session.

Mr. Corrick

544. **ENGINEERING PROBLEMS.** A selection of exercises and problems requiring analysis and the application of accepted or derived methods for solution.

3 hours per week, session.

545. **EXPERIMENTAL ENGINEERING.** Theory, calibration and use of instruments, measurement of pressure, temperature and fluid flow, analysis of combustion products.

1 hour lecture, 1 hour laboratory, session.

Professor Thompson

Reference: Doolittle, Mechanical Engineering Laboratory (McGraw-Hill).

830. **TECHNICAL PAPER** (see page 1449).

FOURTH YEAR

561. **INDUSTRIAL ENGINEERING I.** Analysis of production methods; comparison of manufacturing processes; elements of tool design; jigs and fixtures; selection of method for proper use of material and manufacturing method; analysis of inspection techniques; effect of output on design.

2 lectures and 2 hours problems per week, first term. *Professor Cherna*

References: Young, Materials and Methods (Wiley); Niebel and Baldwin, Designing for Production (Irwin).

563. **MACHINE SHOP II.** Study of speeds and feeds for metal cutting, compound and differential indexing on milling machine, shaper operations, surface and cylinder grinding, drills and drilling, consideration of inspection methods.

5 hours per week, first term.

Mr. Corrick

564. **MECHANICS OF MACHINES.** Mechanics of reciprocating engines—crank-effort diagrams, flywheel calculations, shaking-force diagrams and engine

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balancing; functions and dynamics of governors, mechanical and hydraulic; gear trains; friction drives; cams.

2 lectures and 1 hour problems per week, session. *Professor Stachiewicz*

Reference book: Ham, Crane and Rogers, *Mechanics of Machinery* (McGraw-Hill); Low, *Theory of Machines*.

566. MECHANICAL ENGINEERING. Elementary thermodynamics; properties of steam; fuels and combustion; steam power plants; gas processes; gas cycles; air compressors; I-C engines; engine performance; refrigeration; fluid dynamics; measuring instruments; dimensional analysis; supersonic flow and shock waves, turbo-machinery; heat transfer.

2 lectures per week, session. *Professors Wu and McKay*

Reference books: Dillio & Nye, *Thermal Engineering* (International); Ebaugh, *Engineering Thermodynamics* (Van Nostrand); MacNaughton, *Elementary Steam Power Engineering* (Wiley); Lichty, *International Combustion Engines* (McGraw-Hill); Binder, *Fluid Mechanics* (Prentice-Hall); Eckert, *Heat Transfer* (McGraw-Hill).

569. MECHANICAL ENGINEERING LABORATORY. Properties of lubricants; tests of economy and performance of boiler, internal combustion engines, air compressor and steam turbine; heat transfer; proximate analysis and calorific value of coal; flue-gas analysis; combustion calculations; fan performance.

3 hours per week, session. *Professor Stachiewicz and Staff*

Text: Messersmith, Warner, Olsen, *Mechanical Engineering Laboratory* (Wiley).

Reference books: Sweeney, *Measurement Techniques in Mechanical Engineering* (Wiley); Shoop and Tuve, *Mechanical Engineering Practice* (McGraw-Hill).

571. APPLIED THERMODYNAMICS I. Basic definitions and concepts; first law of thermodynamics; general energy equations for non-flow and for flow processes; reversibility and reversible processes; pure substances, properties of gases, properties of vapours, second law of thermodynamics; entropy; power cycles, gas and vapour; combustion; steam power plants; internal combustion power plants; gas compressors and expanders; refrigeration.

2 lectures and 1 hour problems per week, session. *Professor Bruce*

Reference books: Ebaugh, *Engineering Thermodynamics* (Van Nostrand); Spalding and Cole, *Engineering Thermodynamics* (Edward Arnold-Macmillan of Canada).

573. FLUID MECHANICS. Properties of fluids; fluid statics and stability of ships; kinematics, streamlines and continuity; dynamics; boundary layers;

MECHANICAL ENGINEERING

momentum and energy equation for a control volume; Bernoulli's equation for incompressible and compressible flow; pressure variation perpendicular to streamlines; flow measurement; dimensional analysis and dynamical similarity as applied to pipe flow, ships, aircraft and fluid machinery.

2 lectures per week, first term.

Professor Newman

Textbook: Hunsaker and Rightmire, Engineering Applications of Fluid Mechanics (McGraw-Hill).

575. **MECHANICAL DESIGN I.** The course covers the application of the theories of Strength of Materials to the design of mechanical details of machinery. Rational methods are developed, and empirical factors are introduced as required. The emphasis in this course is on detail design work and on acquiring good habits in design detailing on the draughting board.

4 hours lectures, 6 hours problems, second term.

Professor Edis

Textbook: Shigley, Machine Design (McGraw-Hill).

Reference books: Vallance and Doughtie, Design of Machine Members, 3rd Edition (McGraw-Hill); Spotts, Design of Machine Elements, 2nd Edition (Prentice Hall).

578. **MECHANICAL SERVICES IN BUILDINGS.** A general discussion course relating to problems encountered in providing mechanical services in buildings. Physiological and environmental aspects of heat, ventilation and air conditions are discussed as well as the estimation of heating and cooling loads and the selection and specification of suitable equipment. Sprinkler systems, gas, plumbing and elevators are discussed. The characteristics of typical equipment are outlined and the construction problems produced by installation of this equipment are studied.

Seminars are held to discuss the installation of the mechanical equipment in buildings designed by the students. Field trips are made to inspect various mechanical installations in different types of buildings.

2 hours lectures per week, session; 3 hours per week seminars or field trips, second term.

Professor Levine

Reference books: Allen and Walker, Heating and Air Conditioning (McGraw-Hill); Severns and Fellows, Heating, Ventilation and Air Conditioning Fundamentals (Wiley).

579. **THEORY AND DESIGN OF MACHINES I.** Analysis and classification of simple mechanisms; mechanics and dynamics of reciprocating machinery; balancing; friction and lubrication; analysis of stresses in machine members, under static and dynamic loads; introduction to vibration theory.

2 hours lectures, 3 hours problems, both terms.

Professors Edis and Stachiewicz

ENGINEERING

Textbook: Shigley, Machine Design (McGraw-Hill).

840. TECHNICAL PAPER (see page 1449).

FIFTH YEAR

581. EXPERIMENTAL MECHANICAL ENGINEERING. Calibration and use of instruments; measurement of pressure, of temperature, and of power; test methods; test techniques and methods of expressing results; graphical representation and errors. *Professor Thompson*

2 hours lectures per week, first term.

Reference: Process Control—a reprint from Chemical Engineering (McGraw-Hill).

Investigation and tests of steam boiler, steam and gas turbines, internal combustion engines, air compressor, vacuum pump, fans, refrigerating machine; measurements of fluid flow and heat transfer.

6 hours laboratory per week, session. *Professor Stachiewicz and Staff*

Textbook: Doolittle, Mechanical Engineering Laboratory.

Reference books: Sweeney, Measurement Techniques in Mechanical Engineering (Wiley); Diederichs and Andrae, Experimental Engineering (Wiley); Shoop and Tuve, Mechanical Engineering Practice (McGraw-Hill).

583. INDUSTRIAL ENGINEERING II. Plant layout and equipment; industrial safety and accident prevention; work analysis and measurement; elementary analysis of statistical quality control; optima of industrial production; production analysis and control; production planning.

2 hours lectures, 3 hours problems, per week, session. *Professor Cherna*

References: Maynard, Industrial Engineering Handbook (McGraw-Hill); Ireson and Grant, Handbook of Industrial Engineering and Management (Prentice-Hall).

593. APPLIED THERMODYNAMICS II. Thermodynamic equations for gases and vapours; gas-vapour mixtures; evaporating, drying and air-conditioning processes; thermodynamics of combustion; modified and improved power plant cycles; power plant equipment; power plant heat balance; factors preventing the realization of theoretical performance in heat engines; refrigeration and heat pump systems.

2 lectures and 3 hours problems per week, session. *Professor Bruce*

Reference books: Van Wylen, Thermodynamics (Wiley); Gaffert, Steam Power Stations (McGraw-Hill); Lichty, Internal Combustion Engines (McGraw-Hill); Raber and Hutchinson, Refrigeration and Air-Conditioning (Wiley).

MECHANICAL ENGINEERING

594. **HEAT TRANSFER.** Fundamentals of heat transfer; conduction; free convection; forced convection; basic concepts of the flow theory in laminar and turbulent flow; condensation and evaporation; radiation; overall transfer of heat.

2 hours lectures per week, second term.

Professor Mordell

Reference Books: Brown and Marco, Introduction to Heat Transfer (McGraw-Hill); Eckert, Introduction to the Transfer of Heat and Mass (McGraw-Hill); McAdams, Heat Transmission (McGraw-Hill).

595. **MECHANICAL DESIGN II.** In continuation of the work of the Fourth year, more complex problems in design are introduced. The structural nature of many mechanical mechanisms is stressed, and theories of fatigue failure, the evolution of practical safety factors, and the practical aspects of the design and manufacture of mechanical parts are introduced. During the year students are required to prepare a complete preliminary design brief and working drawings for a typical engineering project.

2 hours lectures, 3 hours problems, session.

Professor Edis

Reference books: As for course 575 and additionally, Timoshenko, Strength of Materials—Parts I and II (Van Nostrand).

596. **FLUID DYNAMICS.** Boundary layer theory; the transport of momentum, heat and mass; potential flow; Joukowski transformation; momentum relations in steady flow; compressible fluid dynamics; shock waves; general theory of turbo-machines; turbines and compressors.

2 hours lectures, 1 hour problems, session. *Professors Mordell and Wu*

Reference books: Schlichting, Boundary Layer Theory (McGraw-Hill); Bairstow, Applied Aerodynamics (Longmans); Shapiro, Dynamics and Thermodynamics of Compressible Fluid Flow—Vol. I (Ronald).

597. **DYNAMICS OF MACHINES.** Solution of problems in dynamics by methods of inertia, momentum and energy. Study of inertia forces and stresses in machines. Vibrations; free, forced, damped and undamped, with one or more degrees of freedom. Electromechanical analogies. Whirling and torsional vibrations of shafts, balancing of rotors and other problems involving the dynamic behaviour of machines.

2 hours lecture, 1 hour problems, session. *Professor Stachiewicz and Staff*

Reference books: Crossley, Dynamics in Machines (Ronald Press); Thomson, Mechanical Vibrations (Prentice Hall); Den Hartog, Mechanical Vibrations (McGraw-Hill).

598. **THEORY AND DESIGN OF MACHINES II.** Advanced dynamics, kinematics of vibration. Design theory. Students are required to prepare a design brief and drawings for a typical engineering project that will require application of the theoretical studies.

ENGINEERING

2 hours lectures, first term; 3 hours problems, both terms.

Professors Edis and Stachewicz

599. ENGINEERING PROBLEMS. Students will study typical engineering problems involving different interrelated aspects of engineering theory, leading to selection and evolution of a design for which drawings will be expected.

12 hours per week, both terms.

Staff

850. TECHNICAL PAPER (see page 1449).

COURSES FOR THE DEGREE OF MASTER OF ENGINEERING

Graduate courses are offered in Mechanical Engineering. For particulars of these and qualifications for entering the Graduate Faculty, see the Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF METALLURGICAL ENGINEERING

Professor

J. U. MACEWAN, *Chairman*

Associate Professor

H. H. YATES

Assistant Professor

WILLIAM M. WILLIAMS

Lecturer

GORDON W. SMITH

THIRD YEAR

643. METALLURGICAL PROBLEMS AND LABORATORY. Materials balances for smelting and refining operations, combustion problems, refractories, problems in physical chemistry, introductory laboratory practice in smelting.

1 lecture per week, session, 2 hours laboratory, first term; three hours laboratory second term.

Professor MacEwan

830. TECHNICAL PAPER (see page 1449).

FOURTH YEAR

662. METALLURGICAL LABORATORY. Use of the metallographic microscope, preparation of specimens for examination, metallography of iron and steel, photographic technique, heat treatment of steel, pyrometry.

3 hours per week, session.

Professors MacEwan and Williams

664. METALLURGICAL PROBLEMS. The application of thermodynamic principles to metallurgical operations and processes. Problems are designed to illustrate the use of enthalpy, entropy, free energy and activity to study reaction equilibria, especially those types commonly associated with roasting, smelting and refining processes.

4 hours per week, second term.

Professor Yates

METALLURGICAL ENGINEERING

666. METALLURGY OF IRON AND STEEL. An introduction to physical metallurgy with particular reference to iron and steel, fabrication of steels, theory and practice of heat-treatment, applications of iron and steel in industry.
1 lecture per week, session.

Professor Williams

Textbook: Wulff, Taylor and Shaler, Metallurgy for Engineers (Wiley).

Reference books: Mondolfo and Zmeskal, Engineering Metallurgy (McGraw-Hill); Samans, Engineering Metals and Alloys (Macmillan); Kehl, The Principles of Metallographic Laboratory Practice (McGraw-Hill); Brick and Phillips, Structure and Properties of Alloys (McGraw-Hill); Williams and Homerberg, Introduction to Metallography (McGraw-Hill); Young, Materials and Processes (Wiley).

668. METALLURGICAL UNIT OPERATIONS. Study of some unit operations of metallurgical interest: pyrometry, heat transfer, introduction to fluid flow.
2 hours lecture and 2 hours problems per week, first term.

Professor Williams

Textbook: Schuhmann, Metallurgical Engineering Principles (Addison Wesley).

Reference books: Binder, Fluid Mechanics (Prentice-Hall); Brown and Associates, Unit Operations (Wiley).

670. PHYSICAL METALLURGY. Theoretical and practical aspects of metallic deformation and annealing; the effects of composition and structure on the behaviour of alloys with detailed discussion of carbon steels, alloy steels, cast irons, wrought iron and various non-ferrous alloys. Heat treatment is considered for specific alloys where applicable.
1 lecture and 2 hours laboratory per week, first term.

Professors Yates and Williams

Textbook: Rollason, Metallurgy for Engineers (Arnold).

840. TECHNICAL PAPER (see page 1449).

FIFTH YEAR

680. HYDROMETALLURGY. The lectures in this course are concurrent with those of Course 683. In place of the regular problem period advanced reading will be assigned with special problems designed to give the student a better understanding of recent developments in hydrometallurgy.
3 lectures per week, session.

Professor Yates

Reference books: See Course 683.

681. EXTRACTIVE METALLURGY. Application of the principles of physical chemistry to metallurgical processes used in the recovery and refining of metals. Various standard processes will be studied and these studies will be augmented by assignments including problems.

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2 hours lectures per week, session.

Professor MacEwan

Reference books: See Course 686.

682. METALLURGICAL LABORATORY. Experiments in pyrometry, heat-treatment, metal refining, metallography, metal working, alloy preparation, fluid flow.

6 hours laboratory per week, first term.

3 hours laboratory per week, second term.

Professor MacEwan

683. HYDROMETALLURGY. The concepts of kinetic theory, chemical kinetics, phase rule and colloid chemistry are introduced with emphasis on systems of metallurgical interest. These ideas and the principles of electro-chemistry are used as a basis for the discussion of processes involved in hydrometallurgy, electrometallurgy and corrosion.

3 lectures and 1 hour problems per week, session.

Professor Yates

Textbook: Daniels and Alberty, *Physical Chemistry* (Wiley).

Reference books: Findlay, Campbell and Smith, *Phase Rule* (Daver); Laidler, *Chemical Kinetics* (McGraw Hill); Mantell, *Industrial Electro-chemistry* (McGraw-Hill); Van Arsdale, *Hydrometallurgy of the Base Metals* (McGraw-Hill).

684. EXTRACTIVE METALLURGY. Application of the principles of physical chemistry to metallurgical processes used in the recovery and refining of metals. Various standard processes will be studied and these studies will be augmented by the solution of problems.

2 hours lectures and 2 hours problems per week, session.

Professor MacEwan

Reference books: See Course 686.

686. GENERAL METALLURGY. Physical metallurgy of non-ferrous metals and alloys; their uses in industry; basic principle of roasting, smelting, refining, and hydrometallurgical processes.

2 lectures per week, session.

Professor MacEwan

Reference books: The Departmental Library has numerous texts, reference books, and periodicals, which are available to students.

688. METALLURGICAL COLLOQUIUM. Students are required to present detailed papers on selected metallurgical topics. This is followed by a discussion period.

1 hour per week, second term.

Staff

690. METALLURGICAL DESIGN. Design of simple furnaces; materials balances and heat balances in standard processes.

3 hours problems per week, second term.

Professor MacEwan

METALLURGICAL ENGINEERING

691. INSTRUMENTATION AND CONTROL. Fundamentals of system behaviour and analysis; open and closed loop systems; stability criteria; some typical control system components.

2 hours lectures and 3 hours laboratory per week, second term.

Professor Yates and Mr. Silvester

693. PHYSICAL METALLURGY. Lectures will be taken concurrently with Course 694. In place of the regular problem period, advanced reading will be assigned, with special problems designed to give the student a better understanding of recent developments in physical metallurgy.

2 hours lectures per week, session.

Professor Williams

694. PHYSICAL METALLURGY. Crystallography, X-ray diffraction, metal and alloy structures, theory of plastic deformation and annealing, age-hardening, heat treatment, and assigned problems.

2 hours lectures and 1 hour problems per week, session. *Professor Easta*

Textbook: Brick and Phillips, Structure and Properties of Alloys (McGraw-Hill).

Reference books: See Course 686.

695. STUDIES IN METALLURGICAL PROCESSES. In this course advanced topics in either physical or process metallurgy will be assigned. The work will consist of literature surveys, analyses and weekly discussions with the staff. Special laboratory work may replace the assignments in part if advisable.

6 hours per week, first term; 3 hours per week, second term.

Staff

696. METALLURGICAL UNIT OPERATIONS. A further study of unit operations in metallurgy: fluid flow, fluidization, dust collection, vacuum evaporation, spray drying.

2 hours lecture and 2 hours problems per week, second term.

Professor Williams

Textbook: See Course 668.

Reference books: See Course 668.

850. TECHNICAL PAPER (see page 1449).

COURSES FOR THE DEGREE OF MASTER OF ENGINEERING AND MASTER OF SCIENCE

Graduate Courses are offered in Pyrometallurgy, Hydrometallurgy, and Physical Metallurgy. For particulars of these and qualifications for entering the Graduate Faculty, see the Announcement of the Faculty of Graduate Studies and Research.

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RESEARCH FELLOWSHIP IN THE DEPARTMENT OF METALLURGICAL ENGINEERING

There is one endowed research fellowship in the Department. This is awarded to a graduate of the Department who shows particular aptitude for advanced work, and is held in the Faculty of Graduate Studies and Research. Graduates of other universities are admitted to this Faculty, if qualified, but are not eligible for the fellowship mentioned.

DEPARTMENT OF MINING ENGINEERING

<i>Professor</i>	R. G. K. MORRISON, <i>Chairman</i>
<i>Associate Professor</i>	_____
<i>Assistant Professor</i>	TALAT SALMAN
<i>Douglas Fellow</i>	_____
<i>Harrington Fellow</i>	_____

THIRD YEAR

740. THEORY OF MEASUREMENTS. A perspective on accuracy. Weights and measures, angles and circular functions, significant figures, graphic representation, graphic analyses.

1 hour per week, first term. *Professor Salman*

Reference: L. Tuttle and John Satterly, *The theory of Measurements* (Longmans Green & Co.).

830. TECHNICAL PAPER (see page 1449).

FOURTH YEAR

760. MINE MAPPING AND THEORY OF MEASUREMENTS. Theory of errors as a continuation of course No. 740. Calculation of mine survey notes using logarithms, traverse tables and a calculating machine; calculating and mapping of a complete mine survey, drawing composite level plans, sections.

1 hour lecture, 2 hours lab., second term. *Professor Salman*

761. MINE SURVEYING. The plane table and its adjustments; the three-point problem; mine surveying; the auxiliary telescope; shaft plumbing; underground traversing; stope surveys; underground curves; borehole surveys; the Brunton compass; astronomical observation.

2 lectures per week, first term. *Professor Salman*

Textbooks: To be announced.

MINING ENGINEERING

762. MINING ENGINEERING I

(a) Sampling methods and the estimation of ore reserves; mine valuation and taxation; Canadian and world mineral production.

2 lectures per week, first term.

Professor Morrison

(b) General mining methods: underground mining, metalliferous and coal; placer mining: quarrying; open pit mining.

2 lectures per week, second term.

Professor Morrison

While parts (a) and (b) are required for students in Mining Engineering, either or both parts may be taken by interested students in other departments.

Reference books: Peele, Mining Engineers' Handbook (Wiley); Jones and Hunt, Coal Mining (Pennsylvania State College); Truscott, Mine Economics (Mining Publications Ltd.).

763. MINERAL DRESSING. Preparation of ores for treatment; mechanical methods of concentration; crushing; grinding; sizing; gravity concentration; agitation; leaching, thickening; filtration; beneficiation of coal.

1 lecture and 3 hours laboratory per week, session.

Professor Salman

Reference book: Richards and Locke, Textbook of Ore Dressing (McGraw-Hill).

764. ORE ANALYSIS. Technical methods for the analyses of ores and mill products; procedures used in the fire assay of ores and processed material for precious metals.

1 lecture and 2 hours laboratory per week, session.

Professor Salman

Reference books: Low, Weinig and Schoder, Technical Methods of Ore Analysis (Wiley); Begbee, Textbook of Fire Assaying (Wiley); Shepard and Dietrich, Fire Assaying (McGraw Hill).

840. TECHNICAL PAPER (see page 1449).

FIFTH YEAR

782. MINE DESIGN. The problems arising in the valuation and equipping of a mining property for production are critically examined. On the basis of information supplied relating to a mining property, the student prepares a report covering the calculation of ore reserves; the financial implication of various rates of production; the mining layout and method; pumping; ventilation; transport for men, materials, ore, and waste; surface layout; ore treatment; tailings disposal; time schedule of operations leading to production; the staff, organization, ancillary services and facilities required for production.

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6 hours problems per week, session.

Professor Morrison

Reference books: As for course 762 and also Parks, Examination and Valuation of Mineral Property (Addison-Wesley Press Inc.); Lewis, Elements of Mining (Wiley); Young, Elements of Mining (McGraw-Hill). Fan Engineering, 5th edition (Buffalo Forge Company); Staley, Mine Plant Design, 2nd edition (McGraw-Hill).

784. MINE FINANCE AND COST CONTROL. Company law and the incorporation of mining companies; provision of capital; payroll accounts and workmen's compensation; cost accounts; direct costs; distributable costs; comparative costs and cost control; amortization, depreciation and depletion; taxes on mines; profit and loss statements and balance sheets.

2 lectures per week, second term.

Mr. R. S. Boire

786. MINING COLLOQUIUM. Students prepare and deliver a lecture on a suitable subject.

1 hour per week, second term.

The Staff

788. MINING ENGINEERING II.

(a) Ventilation; hoisting, haulage and conveying; pumping and drainage; compressed air.

2 lectures per week, first term.

Professor Morrison

(b) Explosives, rock excavation, deep mining, ground pressure and support, sequence of stoping.

2 lectures per week, second term.

Professor Morrison

(c) The Engineer and Management.

1 lecture per week, second term.

Professor Morrison

While parts (a), (b), and (c) are required for students in Mining Engineering, any or all parts may be taken by interested students in other departments.

790. MINING ENGINEERING PROBLEMS. Calculations in combustion, costs, ventilation, hoisting, haulage, mine drainage, and other mine plant problems.

2 hours per week, session.

Professors Morrison and Salman

794. SUMMER SCHOOL. Normally this school is held for two to three weeks immediately after Summer School 766 at the close of the Fourth year. It consists of an inspection trip to the mines and plants of some important district, and serves to acquaint the student with engineering methods as applied to the mining industry. This is considered a part of the Fifth year curriculum.

OPTIONAL COURSES, FIRST YEAR

797. MINERAL DRESSING. Cyanidation, floatation, and milling calculations; laboratory work will cover screening, settling, agitation, filtration, jigging, tabling, cyanidation, and floatation.

2 lectures per week, and 3 hours laboratory, first term.

Professor Salman

798. MINERAL DRESSING. Investigation into the treatment of ores; chemical analyses; flow sheets from these investigations.

1 lecture per week and 3 hours laboratory, second term.

Professo Salman

850. TECHNICAL PAPER (see page 1449).

RESEARCH FELLOWSHIPS IN THE DEPARTMENT OF MINING ENGINEERING

There are two endowed research fellowships in the Department. These are awarded to graduates of the Department who show particular aptitude for advanced work, and are held in the Faculty of Graduate Studies and Research. Graduates of other universities are admitted to this Faculty, if qualified, but are not eligible for the fellowships mentioned.

*OPTIONAL COURSES IN FIRST YEAR

DEPARTMENT OF BOTANY

1402. (Arts and Science 100a and 100b.) ELEMENTARY BOTANY (Half course).

This half course is given as two identical sections, one in the Fall term, the other in the Spring. The student may elect either section. If Botany 100a is taken, Zoology 100b must be taken in the Spring term of the same session. If Botany 100b is taken, Zoology 100a must have been taken in the Fall term of the same session. A student may take only one section of Botany or one section of Zoology per term. A section of Botany and a section of Zoology must be taken in the same academic year.

Botany 100 (a or b) is an introductory course in Botany dealing with the anatomy, cytology and physiology, etc. of plants and their importance as living organisms.

2 hours lectures and 3 hours laboratory

Professors Roscoe, Wilson, Boll, and Maycock.

Note: Botany 100 (a or b) together with Zoology 100 (b or a) really constitutes a course which might be called "Biology 100" and the student must take a half course in Botany and a half course in Zoology, but in different terms.

*Students are advised to make a careful choice at the time of registration since the scheduling of First year lectures precludes any changes after the day of registration.

ENGINEERING

DEPARTMENT OF CLASSICS

LATIN

1425 (Arts and Science 1). BEGINNERS' LATIN.

3 hours per week, session.

Members of the Department

Textbook: Latin, College Outline Series, Wheelock.

1426 (Arts and Science 2). INTERMEDIATE LATIN.

3 hours per week, session.

Members of the Department

For those students only who have completed Latin 1.

Textbooks: To be announced.

1427 (Arts and Science 100). LATIN.

3 hours per week, session.

Members of the Department

Textbooks: To be announced.

DEPARTMENT OF ECONOMICS AND POLITICAL SCIENCE

1430 (Arts and Science 100). ECONOMIC HISTORY. Evolution of economic institutions; the ancient empires; economic and social aspects of the decline and fall of the Roman Empire; mediaeval agrarian economy; fairs, towns, and trading companies; mediaeval money; the voyages of discovery; religion and the rise of capitalism; nationalism and mercantilism; the colonial system; the beginnings of modern banking; the great inventions and the factory system; North American industrial development; trade unions and the co-operative movement; legislative protection of the worker; international finance; rise and fall of the gold standard; evolution of the central banking function; recent economic changes.

3 hours per week, session.

Professor F. C. James

DEPARTMENT OF GEOGRAPHY

1442 (Arts and Science 121). (1) THE ELEMENTS OF PHYSICAL GEOGRAPHY. Scientific study of man's habitat. The course is divided into two main parts:

A. Lands and seas. Study of landscape evolution under different climates; general characteristics and circulation of ocean waters; distribution of plants and animals.

B. The atmosphere. Measurement of physical properties of atmosphere; weather processes; world climates, principal types, causes, and characteristics; climatic control of human activity.

3 hours per week, session.

Professor N. Drummond and Mr. J. Parry

OPTIONAL COURSES, FIRST YEAR

DEPARTMENT OF GERMAN

1450 (Arts and Science 101). GERMAN LANGUAGE (Beginners' Course).

3 hours per week, session. *Professor Bertha Meyer and Dr. Victor Block*

Textbooks: Curts, Basic German, Revised Edition (Prentice-Hall, 1946); Fiedler and Sandbach, First Science Reader for German Students (Oxford Univ. Press).

1451 (Arts and Science 102). GERMAN SCIENCE READING COURSE (Full course). Half the course will be devoted to teaching the method of translation, the second half to actual translation of texts.

2 hours per week, session.

Dr. Victor Block

Prerequisite: German 1 or German 3 or Matriculation in German.

Textbook: C. V. Pollard, The Practical Solution to German Translation (University Co-op, Austin, Texas).

1455 (Arts and Science 100). RUSSIAN LANGUAGE. Reading, grammar, translation, oral practice.

3 hours per week, session.

Mr. Litvinowicz

Texts: G. A. Znamensky, Conversational Russian (Ginn); A. Semeonoff, A New Russian Grammar (Dent).

DEPARTMENT OF HISTORY

1460 (Arts and Science 100). EUROPEAN CIVILIZATION IN THE MEDIAEVAL AND MODERN PERIODS.

3 hours per week, session.

Professors C. C. Bayley, Zagorin and Mr. Vogel

FACULTY OF MUSIC

The courses in Music are open to those who have the qualifications for the regular courses of Music given in the Faculty of Music. The first course of Music is for those who have offered Music as a Matriculation subject.

1480 (Arts and Science 1). FIRST COURSE. HARMONY 101.

3 hours per week, session.

An elementary course in written and keyboard harmony comprising a study of the following harmonic materials and techniques:

Triads and dominant seventh chords in all dispositions and inversions; principles of chord progression; part-writing drills; study of the conventional harmonic formulas and cadences; harmonic analysis; harmonization

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of melody and bass (unfigured) in Bach chorale style using triads, dominant seventh chords and elementary modulations; improvisation of short chorale melodies and of short harmonic progressions.

Texts: McHose, Basic Principles of the Techniques of 18th and 19th Century Composition (Chs. 13-31); McHose, Keyboard and Dictation Manual (Chs. 1-9).

Students will also be required to devote three hours weekly to aural training.

DEPARTMENT OF ROMANCE LANGUAGES

NOTE:—For lists of textbooks used in French 1493 and Spanish 1495 courses refer to the Announcement of the Faculty of Arts and Science. Book lists for *French 1491* will be issued to students at first class meeting.

FRENCH

French only is used in lectures, except during composition periods. Both oral and written examinations are held on each year's work. The oral examination counts for 50 per cent of the total mark.

1491 (Arts and Science French 11). (Advanced)

General survey of French civilization, literature and science from the XVIIIth century to the present day; French composition. Enrolment in French 1491 is restricted to students whose first language is French and those primarily English-speaking students who have achieved first-class standing in French in their School Certificate or High School Leaving examinations, and who pass a test set by the Instructor at the beginning of the session.

3 hours per week, session.

Mr. M. Rabotin

1493 (Arts and Science French 13). General survey of French civilization. Readings, composition and French grammar review.

3 hours per week, session.

Professors L. d'Hauteserve and T. Romer

SPANISH

1495 (Arts and Science Spanish 11).

Grammar; reading and dictation; oral exercises and composition.

3 hours per week, session.

Professor Robina E. Henry and Staff

DEPARTMENT OF ZOOLOGY

1402 (Arts and Science 100a and 100b). ELEMENTARY ZOOLOGY (Half course).

This half course is given as two identical Sections, one in the Fall term

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(Section "a"), the other in the Spring (Section "b"). The student may elect either Section. If Zoology 100a is taken, Botany 100b must be taken in the Spring term of the same session. If Zoology 100b is taken, Botany 100a must have been taken in the Fall term of the same session. A student may take only one Section of Zoology or Botany per term. A Section of Zoology and a Section of Botany must be taken in the same academic year.

Zoology 100a (or b) is an introductory course in Zoology, dealing with the anatomy, physiology, etc., of the vertebrate animals, with particular reference to the evolution of Man.

2 hours lectures and 2 hours laboratory per week in the chosen term.

Section "a"

Professor Berrill

Section "b"

Professor Stanley

Text: Storer and Usinger, General Zoology (McGraw-Hill)

NOTE: Zoology 100a (or b) together with Botany 100b (or a) really constitutes a course which might be called "Biology 100," and the student must take both halves of this in the one session, but in different terms. It is prerequisite to all other courses in Zoology.

DEPARTMENT OF PHYSICS

Professors

G. A. WOONTON, *Chairman*

R. E. BELL

J. S. FOSTER

J. S. MARSHALL

E. R. POUNDER

Associate Professors

K. L. S. GUNN

W. F. HITSCHFELD

W. M. MARTIN

ANNA I. MCPHERSON

F. R. TERROUX

Assistant Professors

J. A. CARRUTHERS

C. R. CROWELL

M. P. LANGLEBEN

J. F. MATHISON

E. J. STANSBURY

R. STEVENSON

Lecturers

M. L. DE ANGELIS

W. M. TELFORD

ENGINEERING

Senior Demonstrators

V. M. FORBES
E. V. HARKNESS
E. L. MORRISON
F. H. WEBB

FIRST YEAR

1311. MECHANICS AND ELECTRICITY. An introductory course covering the elementary portions of mechanics, magnetism, electricity, and atomic physics. Simple applications of fundamental principles to well known phenomena are explained with the aid of demonstrations, laboratory work, and numerical examples.

3 lectures per week, session.* *Professors Martin and Mathison*

Laboratory, 2 hours per week, session. *Professor McPherson*

Textbooks: Marshall and Pounder, Physics (Macmillan); An Elementary College Course in Experimental Physics (Renouf Publishing Co.).

SECOND YEAR

- 1320 (Arts and Science 22a). HEAT. Temperature, kinetic theory, heat engines, throttling, evaporation, hygrometry, heat transfer, radiation, and expansion.

3 lectures per week, first term.

Professors Marshall, Stansbury, McPherson and Langleben

Laboratory, 2 hours per week, first term.

Professors Terroux and McPherson

Textbooks: Marshall and Pounder, Physics (Macmillan); Heat, Light, and Sound Laboratory Manual (Renouf).

- 1322 (Arts and Science 22b). SOUND AND LIGHT. Simple harmonic motion, waves, interference, moving sources, diffraction, vibrating systems, intensity level, audibility, musical scales, and acoustics. Waves and rays, lenses and mirrors, aberrations, the eye, optical apparatus, illumination, interference, polarized light. Wave theory developed in sound is used for light.

3 lectures per week, second term.

Professors Marshall, Stansbury, McPherson and Langleben

Laboratory, 2 hours per week, second term.

Professors Terroux and McPherson

Textbooks: Same as for Course 1320.

THIRD YEAR

- 1340 (Arts and Science 23). ELECTRICITY AND MAGNETISM. The fundamentals of magnetism, electrostatics, current electricity, electromagnetic induction,

*Voluntary tutorials are provided to assist students in 1311.

electrodynamics, theory of simple circuits, elementary electronics. Demonstrators, applications, and numerical examples are emphasized. The laboratory course is essential and complementary to the lectures, illustrating main principles and providing a thorough introduction to the theory and use of common electrical apparatus.

2 lectures and 1 hour voluntary tutorial per week, session.

3 hours laboratory per week, session.

Professors Crowell and Pounder and Demonstrators

Textbooks: Sears, Electricity and Magnetism (Addison Wesley); Marshall and Pounder, Physics (Macmillan); Laboratory Notes on Electricity and Magnetism.

1343. ELECTRICITY AND MAGNETISM. Fundamental principles and experimental basis of D-C circuit theory and measurements; electrostatics and capacitance; magnetism and inductance.

Textbooks: Sears, Electricity and Magnetism (Addison-Wesley); Marshall and Pounder, Physics (Macmillan); Laboratory Notes on Electricity and Magnetism.

INTRODUCTORY ATOMIC PHYSICS. Properties of electrons, protons, and neutrons; relativistic mechanics; isotopes and mass spectroscopy; the nuclear atom and Bohr theory; elementary quantum mechanics of atoms; statistical methods applicable to molecules, atoms, and sub-atomic particles.

Textbooks: Sproull, Modern Physics (Wiley); Marshall and Pounder, Physics (Macmillan).

3 lectures per week, first term. 2 lectures per week second term. 3 hours per week, laboratory, session (alternate weeks during second term).

Professor Pounder

- 1346 (Arts and Science 36 and 36L) LIGHT, ADVANCED. Geometrical and physical optics; electromagnetic theory; interference; diffraction; polarization; simple spectrum analysis; determination of fine structure of spectral lines; Zeeman effect; theory and use of optical apparatus.

2 lectures per week, first term; 1 lecture per week, second term, and

3 hours laboratory per week, session.

Professor McPherson

Reference books: Morgan, Introduction to Geometrical and Physical Optics (McGraw-Hill); Robertson, Physical Optics (Van Nostrand); Wood, Physical Optics (Macmillan); Drude, Optics (Longmans Green); Jenkins and White, Fundamentals of Optics (McGraw-Hill); Hardy and Perrin, The Principles of Optics (McGraw-Hill).

ENGINEERING

FOURTH YEAR

- 1360 (Arts and Science 47). **APPLIED GEOPHYSICS.** Introduction to geophysical methods of prospecting and investigating sub-surface structures; theories uses, and limitations of various magnetic, electrical, gravitational, and seismic methods; practical operation of instruments; field results are obtained and analysed; field experience, when possible. Laboratory facilities are available.

2 lectures per week, first term.

Dr. Telford

Textbook: Eve and Keys, Applied Geophysics, 4th ed. (Cambridge Univ. Press); Dobrin, Introduction to Geophysical Prospecting (McGraw-Hill).

Reference book: Heiland, Geophysical Exploration (Prentice-Hall); Jakosky, Exploration Geophysics (Trija Publishing Co.).

- 1362 (Arts and Science 35). **INTRODUCTORY ATOMIC PHYSICS.** Conduction of electricity through gases; production and properties of free electrons, relativity; atomic structure, elementary quantum theory; X-radiation; ion optics; optical and mass spectroscopy; elementary solid state theory.

2 hours per week, second term.

Professor Pounder

Textbook: Wehr and Richards, Physics of the Atom (Addison-Wesley).

Reference books: Stranathan, The Particles of Modern Physics (Blakiston); Millman and Seely, Electronics (McGraw-Hill); Peaslee, Elements of Atomic Physics (Prentice-Hall).

(The initial portion of this course is given in the first term and corresponds to the second half of course 1343.)

- 1365 (Arts and Science 34). **HEAT AND THERMODYNAMICS.** Thermodynamic systems and variables. The zeroth, first and second laws. The thermodynamics of: heat engines; two-phase systems, including a statement of the third law; thermoelectricity; Joule-Thomson effect; thermionic emission; thermal radiation. Kinetic theory of gases, introduction to statistical mechanics.

2 hours per week, session.

Professor Hirschfeld

Text: Sears, Introduction to Heat, Thermodynamics, Kinetic Theory and Statistical Mechanics (Addison-Wesley).

References: Zemansky, Heat and Thermodynamics (McGraw-Hill); Hoare, Textbook of Thermodynamics (Longmans Green); Jeans, Kinetic Theory of Gases (Cambridge University Press); Worthing and Halliday, Heat (Wiley).

- 1366 (Part of Arts and Science 32). **PROPERTIES OF MATTER.** Surface tension; viscosity; diffusion; gravitation.

1 lecture per week, second term.

Professor Gunn

Students in Engineering Physics are advised to attend these lectures, but are not required to take the final examination.

Reference books: Smith, General Properties of Matter (Arnold); Newman and Searle, General Properties of Matter (Benn); Beers, Introduction to the Theory of Error (Addison-Wesley).

1368 (Arts and Science 31). MECHANICS.

(a) Two dimensional mechanics of particles, systems of particles and of rigid bodies; chains and cables; mass-systems; motion under variable gravity, impulsive forces and couples; dissipative forces; forced and damped oscillations; normal modes of vibration of simple systems; central orbits under attractive and repulsive forces with applications.

3 lectures per week, first term.

Professor Terroux

Textbooks: Lamb, Statics (C.U.P.); Lamb, Dynamics (C.U.P.).

Reference books: Synge and Griffith, Principles of Mechanics (McGraw-Hill); Slater and Frank, Mechanics (McGraw-Hill); Lindsay, Physical Mechanics (Van Nostrand).

(b) Central orbits and scattering problems; Lagrangian and Hamiltonian equations; rotations; motion of rigid bodies, principal axes and moments of inertia; normal modes of vibration and characteristic frequencies of oscillating systems, with applications to atomic and molecular physics.

3 lectures per week, second term. *Professor E. L. Lomon (Mathematics)*

Textbook: Slater and Frank, Mechanics (McGraw-Hill).

Reference books: Goldstein, Classical Mechanics (Addison-Wesley); Corben and Stehle, Mechanics (Wiley).

1369. ELECTROMAGNETIC THEORY. General properties of a vector field; the electrostatic field in a vacuum and in material media; currents and their interactions; Maxwell's equations for stationary and moving media; energy, force, and momentum in electromagnetic field; plane waves.

2 hours per week, first term.

Professor Stevenson

Reference books: Slater and Frank, Electromagnetism (McGraw-Hill); Stratton, Electromagnetic Theory (McGraw-Hill); Ramo and Whinnery, Fields and Waves in Modern Radio (Wiley); Panofsky and Phillips, Classical Electricity and Magnetism (Addison and Wesley); Lorentz, The Theory of Electrons (Dover).

1370. SOLID STATE PHYSICS. Physical principles underlying electrical conductivity, dielectric and magnetic properties of materials; electron emission phenomena.

ENGINEERING

2 hours a week, session.

Professor C. R. Crowell

Text: R. L. Sproull, Modern Physics (Wiley).

FIFTH YEAR

1380. ACOUSTICS OF BUILDINGS. Room acoustics, sound insulation, and noise reduction, presented for architects. The second term is devoted to practical application.

1 lecture per week, first term.

2 hours laboratory per week, second term.

Professor Marshall

Reference book: Knudsen and Harris, Acoustical Designing in Architecture (Wiley).

- 1382 (Arts and Science 43b). ATOMIC AND MOLECULAR STRUCTURE. A concise and connected description of selected topics including recent investigations. Spectra and structure of one electron system; helium; multiplet structure and electron-spin; energy levels according to Dirac; Pauli principle and periodic classification; Zeeman and Stark effects; Lamb-Retherford experiment; hyperfine structure in hydrogen and radioastronomy; molecular spectra and structure; calculation of ionization potentials; energy level shifts; simple molecular structures; nuclear spins and quadrupole moments.

2 hours, second term.

Professor Mathison

Reference books: Herzberg, Atomic Spectra and Atomic Structure (Dover); White, Introduction to Atomic Spectra (McGraw-Hill); Series, Spectrum of Atomic Hydrogen (O.U.P.); Herzberg, Molecular Spectra and Molecular Structure, vol. 1 and 2 (Van Nostrand); Leighton, Principles of Modern Physics (McGraw-Hill).

- 1384 (Arts and Science 48 and 49). ELECTRICAL MEASUREMENTS AND ADVANCED PHYSICS LABORATORY. A.C. networks and circuit theorems; dipole antenna theory; theory and application of transmission lines, including use of the Smith chart; theory and application of wave-guides, including cavity resonators; theoretical and practical aspects of noise including Johnson noise, shot noise and performance of amplifier systems. Impedance measurements from audio frequencies to centimetre wavelengths; dielectric dispersion; magnetic measurements with application of the Hall effect and nuclear magnetic resonance; thermionic emission; selected topics in thermodynamics.

1 hour lecture, first term.

2 hours lectures, second term, and 3 hours laboratory, session.

Professor Carruthers

Textbooks: von Hippel, Dielectrics and Waves (Wiley); Scott, The Physics of Electricity and Magnetism (Wiley); Michels, Electrical Measurements and their Applications (Van Nostrand).

- 1388 (Arts and Science 42). **ELECTROMAGNETIC THEORY.** General properties of a vector field; the electrostatic field in a vacuum and in material media; currents and their interactions; Maxwell's equations for stationary and moving media; energy, force, and momentum in electromagnetic field; plane waves; the inhomogeneous wave equation; advanced and retarded potentials; the Lienard-Wiechert potentials; the field of a uniformly moving electron; radiation from an accelerated charge; difficulties in classical electron theory.

2 hours per week, session.

Professor Stevenson

Reference Books: Slater and Frank, Electromagnetism (McGraw-Hill); Stratton, Electromagnetic Theory (McGraw-Hill); Ramo and Whinnery, Fields and Waves in Modern Radio (Wiley); Panofsky and Phillips, Classical Electricity and Magnetism (Addison and Wesley); Lorentz, The Theory of Electrons (Dover).

- 1390 (Arts and Science 41). **MATHEMATICAL PHYSICS.** Vibration problems, eigenfunctions and eigenvalues, sound waves, scattering problems; Fourier transforms and application to problems of heat conduction and diffusion; introduction to statistical mechanics and wave mechanics.

Same as Mathematics 1290.

3 lectures per week, session.

Professor R. T. Sharp

Reference books: Margenau and Murphy, The Mathematics of Physics and Chemistry (McGraw-Hill); Coulson, Waves (Oliver and Boyd); Lindsay, Concepts and Methods of Theoretical Physics (Van Nostrand); Menzel, Mathematical Physics (Prentice-Hall); Joos, Theoretical Physics (Blackie); Sommerfeld, Partial Differential Equations (Academic Press); Born, Atomic Physics (Blackie).

- 1392 (Arts and Science 40 and 44). **RADIOACTIVITY AND INTRODUCTORY NUCLEAR PHYSICS.** The phenomena of radioactive disintegration and the laws of transformation of successive products; nature and properties of radiations; methods of detection and measurement; mechanisms of absorption and scattering; neutrons, positrons and the constitution of nuclei; artificial disintegration processes; fission and fusion.

First term: 2 hours; laboratory, 3 hours.

Professors Terroux and Martin and Demonstrators

Reference books: Rutherford, Chadwick and Ellis, Radiations from Radioactive Substances (C.U.P.); Cork, Radioactivity and Nuclear Physics (Van Nostrand); Lapp and Andrews, Nuclear Radiation Physics (Prentice-Hall); Semat, Introduction to Atomic and Nuclear Physics (Rinehart); Kaplan, Nuclear Physics (Addison-Wesley).

ENGINEERING

PARTICLES AND QUANTA OF MODERN PHYSICS. X-rays and γ -rays; sources, detection, wave-length and energy measurements; optical properties, X-ray spectra and atomic energy levels; bremsstrahlung, absorption and scattering; high energy physics; cosmic rays, behaviour of very high energy particles and photons; experimental methods; the elementary particles; high energy accelerators.

Second term: 2 hours; laboratory, 3 hours.

Professor Martin and Demonstrators

Reference books: Leighton, Principles of Modern Physics (McGraw-Hill); Peaslee, Elements of Atomic Physics (Prentice-Hall); Blackwood, Osgood and Ruark, An Outline of Atomic Physics (Wiley); White, Introduction to Atomic Spectra (McGraw-Hill); Evans, The Atomic Nucleus (McGraw-Hill).

1871



1871

McGill University



Montreal

Faculty of Medicine

1960-1961

PUBLICATIONS

The following official publications are issued by the University and may be obtained from the Registrar's Office.

Announcements of Faculties and Schools as follows:

General Announcement

School Certificate Examinations

Scholarships, Bursaries, and Loan Funds

Faculty of Arts and Science (Degrees in Liberal Arts and in Pure Science. There is a separate Announcement for the School of Commerce.)

Faculty of Medicine (Undergraduate courses)

Faculty of Medicine (Postgraduate courses)

Faculty of Dentistry

Faculty of Engineering (Degrees in Engineering and in Architecture)

Faculty of Law

Faculty of Music

Faculty of Divinity

Faculty of Graduate Studies and Research

School of Commerce

Library School

Institute of Education

School for Graduate Nurses

School of Physical and Occupational Therapy

School of Social Work

Macdonald College (Faculty of Agriculture, and School of Household Science)

French Summer School

Extension Courses

The Directory of Staff (University administrative officers, standing committees, and officers of instruction. Limited distribution.)

The Calendar (Available for distribution only to libraries and officials of certain institutions.)

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McGill University

FACULTY OF MEDICINE

ADMINISTRATIVE OFFICERS

F. CYRIL JAMES, Chevalier de la Légion d'Honneur, B.Com., M.A., Ph.D.,
D.Sc., D. de l'U., D.C.L., LL.D., F.R.S.C. *Principal*

DAVID L. THOMSON, M.A., Ph.D., D.Sc., LL.D., F.C.I.C., F.R.S.C. *Vice-Principal*

LLOYD G. STEVENSON, B.A., M.D., Ph.D. *Dean of the Faculty*

S. M. BANFILL, M.B.E., B.A., M.D., C.M. *Secretary of the Faculty*

COLIN M. McDougall, D.S.O., B.A. *Registrar*

G. A. GRIMSON, B.Com. *Comptroller*

RICHARD PENNINGTON, B.A., Lib.Dip. *University Librarian*

Special Announcements are available for the School of Physical and Occupational Therapy, and the School for Graduate Nurses.

A complete list of the teaching staff of the University, including the Faculty of Medicine, is printed as a separate Announcement, which may be obtained from the Registrar's Office.

Faculty of Medicine

The one hundred and twenty-eighth session of the Faculty will open on September 2nd, 1960, for students of all years.

Students may enter the Faculty of Medicine in one of two ways. A limited number will be admitted from high school to the Double Course in Science and Medicine. Most will be admitted from college to the four-year medical course.

A. DOUBLE COURSE IN SCIENCE AND MEDICINE

REQUIREMENTS FOR ENTRANCE

Students of high calibre and first-rate academic attainment will be admitted to the First year of this programme after successfully completing Junior Matriculation. They will be enrolled directly in the Faculty of Medicine and at the same time in the Faculty of Arts and Science. In exceptional circumstances students will be admitted to the Second year of the seven-year course when they have obtained high standing in Senior Matriculation. A joint committee of the two Faculties concerned will select the successful candidates.

DESCRIPTION OF COURSE

Duration: Seven years from Junior Matriculation, six years from Senior Matriculation.

Required Subjects: Physics, Chemistry, Organic Chemistry, Biology and one course in English, together with the standard medical curriculum.

Elective Subjects: Eleven additional courses in Arts and Science as approved by the Dean of the Faculty of Arts and Science and the Dean of the Faculty of Medicine.

Organization: Medical courses will begin before the Science courses are completed and courses in the Faculty of Arts and Science will continue for two years after students begin the study of Medicine.

Degrees: B.Sc. (after 5 years), M.D., C.M. (after 7 years).

APPLICATION FOR ADMISSION

It is recommended that application should be made by June 1st, 1960 to the Registrar of McGill University, Montreal 2, Canada. Application forms may be obtained from the Registrar's Office.

B. FOUR-YEAR COURSE IN MEDICINE

REQUIREMENTS FOR ENTRANCE

1. (a) *Total Academic Credits:*

The minimum requirement for admission to the medical course is the satisfactory completion of three full years of study in a recognized college or Faculty of Arts and Science (or the equivalent thereof).

(b) *Scientific Requirements:*

In the scientific branches, certain subjects are specifically required:

Chemistry, two full courses, including General Chemistry and Organic Chemistry, with laboratory work.

Physics, one year with laboratory work.

Biology, or *Zoology*, one year with laboratory work. (Of this, a half year must consist of Zoology.)

(c) *Cultural Requirements:*

These must be selected in such a way as to be in harmony with the requirements for the degree of B.A. or B.Sc. at the college where the courses are taken. These would commonly include credits in English Literature and Composition and in Mathematics. It is advisable for each applicant to present evidence of such preparation.

(d) All candidates for admission to the Medical Faculty are required to take the Medical College Admission Test conducted by the Psychological Corporation or furnish a satisfactory explanation of why they are unable to do so.

2. In selecting courses, in addition to the specific requirements listed above, the intending medical student should plan his pre-medical course as a whole, and in accordance with a definite educational objective. Emphasis should be laid on the broad educational value and the intellectual training afforded, rather than on the factual content of such pre-medical curricula; the student is therefore advised to plan his course in such a way as to provide more than elementary training in some definite field of learning which appeals to him; this major field may be selected from the Natural or the Social Sciences or the Humanities. Certain subjects which though not essential have been found valuable in medical study, and which may be included as electives if the curriculum in the major field permits, are Psychology, Sociology, and Genetics.

MEDICINE

In general, students are advised not to anticipate medical school courses in Physiology, Histology, Bacteriology, and Biochemistry at the expense of a fundamental training as outlined above.

On the other hand, for students who desire a preparation in excess of the minimum requirements, a considerable degree of specialization in the sciences, such as Honours graduation, or a Master's degree, in Physics, Chemistry, Biochemistry, Biology, Physiology, or Bacteriology, may prove to be desirable and advantageous.

The students' attention is called to the memorandum printed in the Announcement of the Faculty of Arts and Science, for the guidance of students who wish to enter Medicine.

Candidates for admission shall furnish evidence that they have satisfied the matriculation requirements of the Licensing Body in the region where they wish to practise. This provision applies to Canadian candidates only.

EQUIVALENT STANDING

A student of another Medical School who desires to be admitted to the Faculty of Medicine of this University with equivalent standing is required to submit an official Statement of his preliminary education and of the medical course he has followed and the standing he has obtained. This should be accompanied by a calendar of the Medical School in which he has studied, giving a full statement of the courses of study, and by a certificate of moral character and conduct.

The equivalent courses of study in schools accepted by this University shall be determined from time to time. Acceptance of a course of study as equivalent may not include the examination in that subject held by the accepted school, but the student may be required to pass such examinations, individual or comprehensive, as may be required by the Faculty.

APPLICATION FOR ADMISSION

Application for admission to the Faculty of Medicine must be made upon the regular application form which may be obtained from the Secretary of the Faculty.

As the number of students in each class is limited, application should be made early and in any case not later than January 1st. Each application must be accompanied by a non-returnable fee of \$5.00 in the form of a cheque or money order payable to McGill University.

A fee of \$50.00 is payable by the applicant within ten days of the receipt of notice that he has been accepted for admission. If the applicant registers within the prescribed registration period in September, this fee

REGISTRATION, FEES

will be credited on his University fees. If he fails to register, the fee lapses, and will be used by the University to meet the cost of its administration and overhead charges in caring for applicants who do not finally register.

A personal interview with the Secretary of the Faculty, when possible, is advisable.

REGISTRATION

Students in the Faculty of Medicine will register at the Registrar's Office in Dawson Hall on Friday, September 2nd or Tuesday, September 6th, 1960. Those who register late will be required to pay a late registration fee of \$5.00 if they register during the first week of the session and \$10.00 if they register during the second. The fee will not be refunded except for satisfactory reasons and by authorization of the Faculty. No student will be admitted after the fifteenth day of the session except by special permission of the Faculty.

FEES

The University reserves the right to make changes without notice in its published scale of fees if, in the opinion of the Board of Governors, circumstances so require. Fees are not refundable, except under special conditions described in the General Information Pamphlet.

UNIVERSITY FEES

1. DOUBLE COURSE IN SCIENCE AND MEDICINE	
First and Second years.....	\$475.00
Third to Seventh years.....	\$600.00
2. FOUR-YEAR COURSE IN MEDICINE	
Annual fee (including Students' Society and Medical Students' Journal fees).....	\$600.00
Students in the Fourth year also pay for meals at the Royal Victoria Montreal Maternity Hospital.....	\$ 5.00
If paid in two instalments:	
First year only—	
First instalment, on registration.....	\$300.00
Instalment fee.....	2.50
	302.50
Less half deposit.....	25.00
	\$277.50
Second instalment, January 15th.....	\$277.50
Second and Third years, each instalment.....	\$302.50
Fourth year, each instalment.....	\$305.00

MEDICINE

3. REPEATING STUDENTS

Students repeating a year pay full fees.

4. AD EUNDEM FEE

Students entering any year above the First, pay a special *ad eundem* fee of..... \$10.00

DATES OF PAYMENT

Fees are due and payable at the Chief Accountant's Office, Dawson Hall, between the hours of 9 a.m. and 4 p.m. on the following dates.

Friday, September 2nd to Friday, September 9th, or, if desired, fees may be remitted by mail before the above dates. The second instalment of tuition fees is due and payable on January 15th. An additional \$2.00 is charged for payment after the specified dates.

Students registering late pay their fees at the time of registration, failing which they become subject to the late payment fee.

Immediately after the prescribed dates for the payment of fees the Chief Accountant will send to the Dean of each Faculty a list of the registered students who have not paid their fees. The Dean will thereupon suspend them from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Chief Accountant.

All fees are payable in Canadian currency.

For further information and for a list of special fees see the General Information Pamphlet included in this Announcement.

MICROSCOPES

Each student, on beginning his studies, is required to provide himself with a first-class microscope for laboratory and private study throughout his course. The microscope must be of substantial construction and be provided, as a minimum, with the following accessories: 2/3, 1/6, and 1/12 oil immersion objective, and a substage condenser. Such an instrument will last a lifetime and is an essential part of the equipment of a practitioner in medicine. Suitable microscopes may be secured through local dealers. The University does not rent microscopes to medical students.

BOARD AND RESIDENCE

For details of board and residence and an estimate of expenses, see the General Information Pamphlet included in this Announcement.

HEALTH SERVICE

For details of the Health Service and Medical Examinations see the General Information Pamphlet included in this Announcement.

COURSES FOR THE DEGREE OF M.D.,C.M.

The minimum period of professional training required by the University as a qualification for the independent practice of Medicine shall be five years, including

- a. four years of medical study in the University leading to the degree of M.D.,C.M.; and
- b. one year of internship in an approved hospital,

or

one year of further medical study in the Faculty of Medicine of McGill University or at another medical school approved by it.

While the Faculty Administration exercises a general supervision of arrangements for internships, the Faculty of Medicine assumes no responsibility to provide an internship for any student.

A certificate that his medical education is completed and that he is eligible to sit for the examination of a licensing board shall not be issued to any graduate until the University is in possession of satisfactory evidence that he has completed the full requirements.

There are four sessions of thirty-six weeks each exclusive of examination periods. The sessions usually begin the first Tuesday after the first Monday in September (Labour Day), and continue until the first week of June.

The academic session is divided into three terms of 12 weeks each in all sessions. The minimal period of study for the degree of M.D.,C.M., is, therefore, four sessions of study comprising one hundred and forty-four weeks exclusive of examination periods.

The arrangement of the principal subjects of instruction is usually as follows:

FIRST SESSION

Anatomy (including Embryology), Histology, Physiology, Biochemistry, Child Development and Human Relations, Introduction to Medicine, General Pathology, History of Medicine.

MEDICINE

SECOND SESSION

Central Nervous System (Anatomy, Neuroanatomy, Neurophysiology, Psychology), Medical Microbiology, Laboratory Diagnosis, Medicine, Surgery, Obstetrics, Health and Social Medicine, Psychiatry, Special Pathology, Radiology, History of Medicine.

THIRD SESSION

Health and Social Medicine, Medicine, Surgery, Obstetrics and Gynaecology, Medical Jurisprudence, Neurology and Neurosurgery, Paediatrics, Psychiatry, Ophthalmology, Oto-laryngology, Radiology, Anaesthesia, Electives.

FOURTH SESSION

Medicine, Surgery, Obstetrics and Gynaecology, Psychiatry, Paediatrics, Ophthalmology, Oto-laryngology, Radiology, Therapeutics.

EXAMINATIONS

The examinations taken within the Medical Faculty are divided into two groups, namely major examinations and minor examinations. Major examinations are the final examinations in Anatomy (Embryology), Histology, Physiology, Biochemistry, Pharmacology, Medical Microbiology, Special Pathology, Public Health and Preventive Medicine (Third year), Paediatrics, Medicine, Surgery, Obstetrics and Gynaecology, Psychiatry, Central Nervous System.

The examinations in Medicine, Surgery, Obstetrics and Gynaecology, and Psychiatry at the conclusion of the Third Session are ranked as major examinations, even though they are not the final examinations in these subjects.

Minor examinations include the final examinations in General Pathology, Laboratory Diagnosis and examinations preliminary to the final major examinations.

A student who fails in any major examination will be required, before he sits a supplemental examination, to present to the Dean's office from the senior professor of the Department concerned a certificate that the student has taken sufficient extra tuition as would indicate that he has reviewed the subject and is a suitable candidate for the supplemental examination.

EXAMINATIONS

There is a strict difference between the importance of a major and a minor examination. If a student fails in the supplemental of a major examination, there are definite restrictions as hereinafter set forth, while failure in the supplemental of a minor examination permits the student to carry conditions as are hereinafter laid down.

A student who fails in the supplementals of not more than two minor examinations may proceed with other subjects in the following year, carrying such subjects as conditions, but may not sit any subsequent major examinations until the conditions have been removed, nor may more than two conditions be carried at one time.

All conditions must be removed by the end of the first term (November) in each session when additional supplemental examinations will be held. Failure in any of these will require the student to revert to the previous year and to repeat the courses of the Winter and Spring terms.

A student who fails in the supplementals of three or more minor examinations in any one session must repeat this session or may be asked to retire, as may be decided by the Promotion Committee, but he may appear before the Promotion Committee to plead his case if it be decided that he should retire.

A failure in the supplemental of a major examination will require the student to repeat the course (repeat the year), and no student may repeat such a course more than once. Any student who fails in the supplementals of two major examinations in any one year shall be required to retire without the privilege of further supplementals.

A student is not allowed supplementals in three major examinations in any one session. He will be required to repeat his year or retire as decided by the Promotion Committee, from whose decision there shall be no appeal.

A student is not allowed supplementals in two major and one minor examination in any one session. He will be required to repeat his year or retire as decided by the Promotion Committee, but he may appear before the Promotion Committee to plead his case if it be decided that he should retire.

A student in the final year may take a supplemental examination in one subject only at the end of the following September, but must present a certificate from the senior professor of the Department concerned that he has taken at least three months' extra tuition in this subject in one of the teaching hospitals of the McGill Faculty of Medicine. If he should fail in this supplemental examination, he must repeat the year of study and pass all the major examinations at the completion of the session.

A student in the final year who fails in two subjects will not be permitted supplementals but must repeat the year or retire, as decided by the Promotion Committee, from whose decision there shall be no appeal.

A student will not be allowed to repeat a year more than once nor may he repeat a subsequent year if such repetition has been due to failure in examinations, except on special recommendation of the Promotion Committee, acting upon the motion of the representatives on the committee of the Department concerned.

A student who has been permitted to repeat his year shall be required to make a C+ grade, which for this purpose is considered to be 65%, or he will not be permitted to continue his course.

Examinations, tests, reviews, etc. will ordinarily be held during the session only at the end of the twelve week terms. It is understood that such examinations, tests or reviews are conducted for the benefit of the student in order that he may have experience in the requirements of the sessional examinations, and further, that he and his teachers may know he is progressing in his studies. In the Fourth year final examinations will be held at the end of each rotation.

There shall be two Promotion Committees. The First Committee shall consist of representatives of the subjects of Anatomy, Biochemistry, Histology, Physiology, Pharmacology, Medical Microbiology and Pathology, appointed by the Dean, and the Dean and the Secretary *ex officio*. This Committee shall pass on all cases of students who fail to satisfy examination requirements in the First and Second years. The second Committee shall consist of representatives of the Departments of Health and Social Medicine, Medicine, Surgery, Obstetrics and Gynaecology, Paediatrics, and Psychiatry appointed by the Dean, and the Dean and the Secretary *ex officio*. This Committee shall pass on all cases of students who fail to satisfy examination requirements in the Third and Fourth years.

All results of examinations will be given out by the Dean's office, after they have been passed upon by the Promotion Committee. It is an absolute rule that no examination results shall be communicated by any other channel.

The Faculty reserves the right to require the withdrawal of any student at any time if, in the opinion of his instructors, he is incompetent. There can be no appeal from this decision.

GRADING

At the conclusion of each course, students are graded in five groups as follows:

- A = Excellent
- B = Good
- C = Fair
- D = Doubtful
- E = Failure

In reporting the grading, the names of those students who attain "A" standing are arranged in order of merit; in all other grades the arrangement is alphabetical.

By regulation of the Faculty of Medicine, a student is not permitted more than one "D" grade in the examinations of a single year. In the presence of other "D" or "E" grades all "D" grades are automatically converted into failures by the Promotion Committees.

The grade assigned to a student is based upon the results of the Final Examination, but the instructor also takes into account the record of the work done throughout the course.

The quality of the English used by a candidate is taken into account in determining his standing in all examinations.

REQUIREMENTS FOR THE DEGREE OF M.D.,C.M.

1. Every candidate for the degree of Doctor of Medicine and Master of Surgery in this University must be at least twenty-one years of age and of good moral character.
2. He must have fulfilled all the requirements for entrance to the Faculty of Medicine and have attended courses of instruction for four full sessions of not less than nine months each in this University or in some other university, college or school of Medicine, approved by this University. (See page 1607.)
3. No one is permitted to become a candidate for the degree who has not attended at least two full sessions at this University.
4. Every candidate for the degree must have passed all of the required examinations in the subjects comprising the Medical course.
5. He must have attended the practice of the Royal Victoria Hospital or the Montreal General Hospital, or of some other hospital (with not fewer than one hundred beds) approved by this University and the practice of the Montreal Children's Hospital; and must have acted as clinical clerk in Medicine, Surgery, Paediatrics and Psychiatry and have fully reported upon the prescribed number of cases.

MEDICINE

6. He must also have attended the practice of the Maternity Hospital or other lying-in hospital approved by the University, and have acted as assistant in at least twenty cases.
7. Every candidate must also have administered anaesthetics, under direction, at least six times, and have assisted at not less than six autopsies.

REQUIREMENTS FOR LICENCE

Intending students are reminded that a University degree in Medicine does not in itself confer the right to practise the profession of medicine. In each Province of Canada and in each one of the United States the right of licensing is vested in a Licensing Body which has its special laws and requirements; in many cases a special standard of general education is insisted upon before *beginning* the study of medicine. One of the requirements in several provinces is that the entrance qualifications of the student must be registered with the provincial licensing body for five years before a licence to practise can be obtained.

N.B.—In order that disappointment and loss of time may be avoided, the University requires Canadian students to register with the licensing body of their home province before beginning their medical course.

Full information as to the requirements for registration in the various provinces may be obtained from the Registrars of the Provincial Medical Boards, as follows:

QUEBEC—Dr. J. Paquin, 1896 Dorchester St. West, Montreal 25, P.Q.

ONTARIO—Dr. H. McPhedran, 174 St. George St., Toronto 5, Ont.

NEW BRUNSWICK—Dr. J. M. Barry, 182 Princess St., Saint John, N.B.

NOVA SCOTIA—Dr. M. R. Macdonald, Victoria General Hospital, Halifax, N.S.

PRINCE EDWARD ISLAND—Dr. R. G. Lea, 170 Fitzroy St., Charlottetown, P.E.I.

MANITOBA—Dr. M. T. Macfarland, 605 Medical Arts Building, Winnipeg, Man.

ALBERTA—Dr. W. Bramley-Moore, 207 Alexandra Block, Edmonton, Alta.

SASKATCHEWAN—Dr. G. N. Peacock, 415 Birks Bldg., Saskatoon, Sask.

BRITISH COLUMBIA—Dr. Lynn Gunn, 1807 West 10th Avenue, Vancouver 9, B.C.

NEWFOUNDLAND—Dr. C. Macpherson, P.O. Box 5121, St. John's, Nfld.

PROFESSIONAL REGISTRATION

DOMINION REGISTRATION

In order to take the examination of the Medical Council of Canada a candidate must have the licence of a Canadian province, or he must present a certificate from the Registrar of a Provincial Medical Board that he holds qualifications accepted and approved of by the Medical Board of that province.

Full information may be obtained by writing to the Registrar, 77 Metcalfe Street, Ottawa 4, Ontario.

GENERAL COUNCIL OF MEDICAL EDUCATION

The entrance requirements in Medicine of this University are accepted by the General Medical Council of Great Britain. Graduates of this University who desire to register in England are exempted from any examination in preliminary education on production of the McGill Matriculation certificate. Certificates of this University for attendance at lectures, practical work, and clinics are also accepted by the various examining boards in Great Britain.

Detailed information may be obtained from the Registrar, General Council of Medical Education and Registration, 44 Hallam Street, Portland Place, London, W.1, England.

Courses of Instruction

DEPARTMENT OF ANAESTHESIA

Associate Professor R. G. B. GILBERT, *Chairman*

Wellcome Research Professor J. G. ROBSON

Assistant Professors P. R. BROMAGE
W. G. CULLEN
H. T. DAVENPORT
GLADYS ELLISON
R. S. FERGUSON
R. A. MILLAR
A. B. NOBLE
D. J. POWER

Lecturers G. F. BRINDLE
J. J. KELLY
P. O'SHAUGHNESSY
J. B. SUTHERLAND

Demonstrators MARGARET BARR
N. W. B. CRAYTHORNE
J. D. A. FIRTH
DEIRDRE GILLIES
E. W. LARKING
A. W. MACDONALD
D. J. L. MACWATT
A. N. MUNGALL
ANNE RICHARDSON
F. A. ROBILLARD
J. K. ROSALES
A. C. SHERIDAN
F. B. SINGLETON
F. R. H. WRIGLEY

UNDERGRADUATE COURSES

A student in Medicine, before reaching that part of the curriculum which deals with anaesthesia, will have acquired during the earlier years at the University some incomplete, but important knowledge of anaesthesia while taking courses in anatomy, physiology, biochemistry, pharmacology and pathology.

COURSES IN ANATOMY

In the Third year he attends twelve lectures, illustrated by sound films, given by senior members of the Department of Anaesthesia. The student is given advice on what to read. An examination may follow the termination of this session.

In the Fourth year a period of one week is spent in the operating room. The student is assigned to an anaesthetist each morning from 8-12 while in the afternoon from 1.30 - 2.30 he attends a didactic session concerning the procedures he has witnessed.

Also in this year the one month "Period of Election" may voluntarily be spent in the Department of Anaesthesia of one of the University hospitals. This presents opportunity for additional supervised clinical work in the operating room, the recovery room and the intensive care unit.

Textbook: R. D. Dripps et al. *Introduction to Anesthesia* (Saunders, 1957).

DEPARTMENT OF ANATOMY

Professors

C. P. LEBLOND, *Chairman*

J. LANGMAN

C. P. MARTIN

Associate Professor

S. M. BANFILL

Assistant Professor

Y. CLERMONT

Lecturers

L. HELLER

I. SMART

E. W. WORKMAN

Research Associate

H. ISLER

Teaching Fellows

N. J. NADLER

J. K. SANGHI

REQUIRED COURSES

1. GROSS ANATOMY

First year: Six hours per week during the Autumn term and nine hours per week during the Winter and Spring terms. Dissection and lectures cover the gross anatomy of the body except the Head, Neck and Brain. The course includes Embryology and Surface and Radiological Anatomy.

Second year: Nine hours per week during the Autumn term. Dissection and lectures on the Head, Neck and Brain. This course is followed by 2. *Introduction to the Central Nervous System* listed below and a combined examination is held at the end of the year.

MEDICINE

2. INTRODUCTION TO THE CENTRAL NERVOUS SYSTEM

Six hours lecture and laboratory per week during the second term of the Second year and two hours lectures per week during the third term. Conducted with the co-operation of the Departments of Neurology and Neurosurgery, Physiology and Psychology. This course is listed under the Department of Neurology and Neurosurgery as 2A.

3. APPLIED ANATOMY

One hour per week lecture during the Autumn, Winter and Spring terms (Designed for graduate students and candidates for the Diploma in Surgery).

Textbooks: T. B. Johnston and D. V. Davies, *Gray's Anatomy*, 32nd ed. (Longmans 1954) or J. C. Brash, *Cunningham's Text-Book of Anatomy* 9th ed. (Oxford 1951).

Practical Manual: J. T. Aitken *et al.*, *A Manual of Human Anatomy*, 5 vols. (Livingstone 1956).

Surface Anatomy: A. B. Appleton *et al.*, *Surface and Radiological Anatomy*, 3rd ed. (Heffer 1949).

Optional Texts: J. E. Frazer, *Anatomy of the Human Skeleton* by A. S. Breadnach, 5th ed. (Churchill 1958); J. C. B. Grant, *An Atlas of Anatomy*, 4th ed. (Williams and Wilkins 1956); J. C. B. Grant, *A Method of Anatomy*, 6th ed. (Williams and Wilkins, 1958); E. B. Jamieson, *Illustrations of Regional Anatomy*, 7th ed. 7 vols. (Livingstone 1947); T. B. Johnston, *A Synopsis of Regional Anatomy*, 8th ed. (Churchill 1957); A. Lee McGregor, *Synopsis of Surgical Anatomy*, 8th ed. (Wright, 1957); S. W. Ranson and S. L. Clark, *Anatomy of the Nervous System*, 10th ed. (Saunders 1959).

INTRODUCTION TO MEDICINE

One hour per week from October. A presentation of selected clinical material, from the standpoint of the basic medical sciences. The sessions are correlated with the lectures given by the Departments of Anatomy, Biochemistry and Physiology, in rotation.

ELECTIVE COURSES

The Department provides, as far as material will permit, facilities for advanced work or revision. The Chairman of the Department should be consulted by anyone wishing to undertake work of this nature.

COURSES IN EMBRYOLOGY

4. ADVANCED NEURO-ANATOMY

Lecture and laboratory work on two evenings per week from October to December. By arrangement the course is held in the Neurological Institute under the direction of Dr. McNaughton. The class is limited to ten. The course consists of the construction of plasticine models of the brain, based on individual study of the brain and brain stem.

MICROSCOPIC ANATOMY

REQUIRED COURSE

6. HISTOLOGY

The study of the histological structure of the body. Two or three hours lectures and six or nine hours laboratory work per week during the first two terms of the first medical year.

Textbooks: A. W. Ham, *Histology*, 3rd ed. (Lippincott 1957); A. A. Maximow and W. Bloom, *A Textbook of Histology*, 7th ed. (Saunders 1957); *Bailey's Textbook of Histology*, 14th ed., by W. M. Copenhagen and D. D. Johnson (Williams and Wilkins, 1958).

Additional Reading: E. V. Cowdry, *A Textbook of Histology*, 4th ed. (Lea and Febiger 1950); E. D. P. DeRobertis, W. W. Nowinski and F. A. Saenz, *General Cytology*, 2nd ed. (Saunders 1954); R. O. Greep, *Histology* (Blakiston 1954).

ELECTIVE COURSE

7. EXPERIMENTAL MORPHOLOGY

- (a) A seminar on biological problems—1 hour per week.
- (b) A practical course on the planning of biological experiments, laboratory animal management and operations, histological and histometrical techniques, tracing methods (Radioisotope measurement by Geiger counter and localization in tissue section by radioautography), microphotography, statistical methods for assessing data, etc. One hour lecture and 2 hours laboratory per week.

EMBRYOLOGY

REQUIRED COURSE

8. THE STUDY OF HUMAN DEVELOPMENTAL ANATOMY

This course is integrated with 1. *Gross Anatomy*. Lectures and demonstrations of live material and models are distributed over the First year and the first term of the Second year. Topics emphasized are: early stages of development; the cardio-vascular, respiratory, gastro-intestinal, urogenital and nervous system; and the fetal membranes.

MEDICINE

Textbooks: L. B. Arey, Developmental Anatomy, 6th ed. (Saunders 1954); W. J. Hamilton *et al.*, Human Embryology, 2nd ed. (Heffer 1952); Section on Embryology in Cunningham's Textbook of Anatomy; Section of Embryology in Gray's Anatomy.

DEPARTMENT OF BACTERIOLOGY AND IMMUNOLOGY

Professor

R. W. REED, *Chairman*

Associate Professors

G. G. KALZ

J. W. STEVENSON

Assistant Professors

FRITZ BLANK

C. A. BUTAS

A. M. MASSON

B. N. MATHESON

S. I. VAS

Lecturers

L. KAPICA

H. D. KING

E. MANKIEWICZ

O. MORGANTE

F. H. PRISSICK

R. SILOV

Teaching Fellow

E. L. MEDZON

All lectures and laboratory courses are given in the Department of Bacteriology, Pathological Institute.

20. MEDICAL MICROBIOLOGY

This course deals with the general principles of medical microbiology and immunology. The lectures are concerned with the anatomy and physiology of bacteria, theories of infection and immunity and a systematic study of the pathogenic bacteria, viruses and rickettsiae. The animal parasites of man (protozoa, helminths and anthropods) are considered with special emphasis on those found in North America. Laboratory work provides experience in the cultivation, isolation and identification of microorganisms and an opportunity to observe their physiological and immunological properties.

Lectures and laboratory work during the first two trimesters of the Second year.

COURSES IN BIOCHEMISTRY

Textbooks: Wm. Burrows, *Textbook of Microbiology*, 17th ed. (Saunders 1959); Ernest Jawetz *et al.*, *Review of Medical Microbiology*, 4th ed. (Lange 1960); D. T. Smith and N. F. Conant, *Zinsser's Bacteriology*, 11th ed. (Appleton 1957); T. W. M. Cameron, *The Parasites of Man in Temperate Climates*, 2nd ed. (Univ. of Toronto Press, 1946).

References: R. J. Dubos, *Bacterial and Mycotic Infections of Man*, 3rd ed. (Lippincott 1958); Sidney Raffel, *Immunity* (Appleton 1953); A. J. Rhodes and C. E. Van Rooyen, *Textbook of Virology*, 3rd ed. (Williams and Wilkins 1985); T. M. Rivers and F. L. Horsfall, *Viral and Rickettsial Infections of Man*, 3rd ed. (Lippincott 1958).

42. ADVANCED MICROBIOLOGY

43a. IMMUNOLOGY

46. SEMINARS IN MICROBIOLOGY AND IMMUNOLOGY

OTHER COURSES

The Department offers facilities for undergraduate and graduate training. See the announcements of the Faculty of Arts and Science and of the Faculty of Graduate Studies and Research.

DEPARTMENT OF BIOCHEMISTRY

Professors

K. A. C. ELLIOTT, *Chairman*

J. H. QUASTEL

D. L. THOMSON

Associate Professors

O. F. DENSTEDT

M. SAFFRAN

Assistant Professors

E. H. CREASER

ESAU HOSEIN

D. RUBINSTEIN

P. G. SCHOLEFIELD

FIRST YEAR

BIOCHEMISTRY-PHYSIOLOGY 1. Mon. to Fri., at 9 a.m.

BIOCHEMISTRY-PHYSIOLOGY 1L.

Laboratory: six hours a week.

Staff

BIOCHEMISTRY-PHYSIOLOGY 1D. Demonstrations and tutorials.

2 hours per week.

This is an integrated course of lectures, tutorials, demonstrations and laboratory work given jointly by the two departments.

MEDICINE

INTRODUCTION TO MEDICINE

One hour per week from October. A presentation of selected clinical material, from the standpoint of the basic medical sciences. The sessions are correlated with the lectures given by the Departments of Anatomy, Biochemistry, and Physiology, in rotation.

THIRD YEAR ELECTIVE

- 3E. RESEARCH IN BIOCHEMISTRY AND PHYSIOLOGY. A limited number of students may take Biochemistry or Physiology as their elective subject in the Third year. These students will be given the opportunity to participate in departmental research projects.

OPTIONAL ADDITIONAL COURSES

For students who are interested in additional studies in Biochemistry the following courses are recommended:

45. METABOLISM. The nature of biological oxidations and reductions and the enzymes concerned therewith, especially from the point of view of transfer of energy; the intermediary metabolism of organic foodstuff, the hormonal control of metabolism.

First term: 2 hours

Second term: 3 hours

Staff

- 51-52. SPECIALTIES AND RECENT ADVANCES IN BIOCHEMISTRY. In this course groups of lectures will outline special fields of Biochemistry in which advances have been rapid. The content of the course will change from year to year.

One hour.

Staff

This course is open only to students who have previously taken advanced courses in Biochemistry.

DEPARTMENT OF HEALTH AND SOCIAL MEDICINE

Strathcona Professor

R. P. VIVIAN, *Chairman*

Associate Professors

D. S. FLEMING

C. W. MACMILLAN

MARGARET E. NIX

Assistant Professor

MARIAN BAIN

COURSES IN HEALTH AND SOCIAL MEDICINE

Lecturers

H. E. BURKE
F. M. JONES
MILTON G. TOWNSEND
FREDERICK WIENER

Demonstrators

EDITH M. MANKIEWICZ
M. A. HICKEY

The Department provides three courses for undergraduates in the Faculty of Medicine—Public Health and Preventive Medicine, Medical Ethics and Jurisprudence, and Medical Statistics.

The course in Medical Statistics is given in the autumn term of the First year and consists of 12 one hour lectures. The course deals with statistical methods and techniques most frequently used in medical work.

The course in Public Health and Preventive Medicine is begun in the autumn term of the Second year and contains, for each student, 24 lectures of 1 hour each and 11 demonstrations or field trips of 2½ hours each, a total time of 51½ hours.

The lectures deal with Epidemiology as a medical science and with the application of epidemiological principles to the study of disease causation and behaviour. Special emphasis is placed upon the influence of the environment upon health. Nutrition is also dealt with as a problem of ecology. Vital Statistics deals with census and estimated populations, registration, definition and computation of rates.

Industrial Toxicology. Four lectures on (a) dusts, fumes, smokes, mists, fogs and vapours (b) metal fume fever (c) arsenic, lead and mercury (d) carbon monoxide (e) organic compounds—aliphatic and aromatic hydrocarbons—halogenated, nitro, and amino derivatives (f) organic solvents (g) factors influencing selection of employees (h) early diagnosis of industrial poisoning.

Field trips and demonstrations pertinent to the lecture material are arranged which include visits to a water plant, a provincial laboratory, the Institute of Microbiology and the Royal Edward Laurentian Hospital; and discussion periods on Public Health Practice and Vital Statistics.

A minor examination is held at the end of the Second year.

The second part of the course in Public Health and Preventive Medicine is given in the Third year. This part contains 12 lectures given to the class as a whole at weekly intervals during the autumn term and 12 afternoon sessions of 2½ hours each, in each of the three week concentration periods provided in the curriculum. The total time for each student in the Third year is 42 hours.

The lectures present the epidemiological approach to the control of communicable diseases and the prevention of degenerative diseases and other disabilities. They are designed to introduce the work of the concentration periods as well as to deal with entities for which no concentration period is provided.

The concentration periods are designed to provide an outline of the organization and activities of public health services in Canada and the operation of local or municipal public health programs, together with didactic material on the etiology, epidemiology and control of specific infectious diseases with demonstration and practice in the use of immunizing agents. The concentration periods also contain the presentation of didactic material on health supervision policies for particular groups in the community with demonstration and discussion.

A final examination is held at the end of the Third year.

Text and Reference Books: M. J. Rosenau, Preventive Medicine and Public Health, ed. by K. F. Maxcy, 8th ed. (Appleton 1956); H. S. Mustard and E. L. Stebbins, Introduction to Public Health, 4th ed. (Macmillan, New York, 1959); H. R. Leavell and E. G. Clark, Preventive Medicine for the Doctor in his Community, 2nd ed. (McGraw-Hill 1958).

MEDICAL ETHICS AND JURISPRUDENCE

The course in Medical Ethics and Jurisprudence consists of some 12 lectures, given to the class as a whole, in the spring term of the Second year.

Twelve lectures on (a) legal status of physicians (b) obligation of the doctor to the state (c) professional secrecy—privileged communications (d) responsibility to the patient—implied and expressed contracts (e) physical examinations, surgical operations and consent (f) malpractice—civil, criminal (g) legal procedures—coroner's court, other courts, medical witness (h) medico-legal aspects of death (i) personal identity in its medico-legal bearing (j) blood stains (k) wounds (l) pregnancy (m) abortion (n) infanticide (o) impotency and sterility (p) rape (q) medico-legal aspects of alcoholic intoxication (r) insanity.

Texts and Reference Books: i. General: R. J. M. Buchanan, Textbook of Forensic Medicine and Toxicology, 9th ed. (Livingstone 1925); John Glaister, Medical Jurisprudence and Toxicology, 9th ed. (Williams and Wilkins 1953); T. A. Gonzales *et al.*, Legal Medicine, 2nd ed. (Appleton 1954); D. J. A. Kerr, Forensic Medicine, 5th ed. (Black 1954); H. H. Littlejohn, Forensic Medicine (Churchill 1925); R. H. Long, The Physician and the Law, 2nd ed. (Appleton 1959); W. D. McNally, Toxicology,

Chic., (Indus. Medicine 1937); Sydney Smith and F. S. Fiddes, Forensic Medicine, 10th ed. (Churchill 1955); Sydney Smith and John Glaister, Recent Advances in Forensic Medicine, 2nd ed. (Churchill 1939); A. S. Taylor, Principles and Practice of Medical Jurisprudence, ed. by Sydney Smith, 11th ed., 2 vols. (Churchill 1956-57).

ii. *Industrial Toxicology*: Ethel Browning, Toxicity of Industrial Organic Solvents, 2nd ed. (H.M.S.O. 1953) (G.B. Med. Res. Council, Indus. Health Res. Bd. Rept. no. 80); Yandell Henderson and H. W. Haggard, Noxious gases, 2nd ed. (Reinhold 1953); Donald Hunter Industrial Toxicology (Oxford 1944).

HISTORY OF MEDICINE

Professor

LLOYD G. STEVENSON

REQUIRED COURSES

1. INTRODUCTORY COURSE (First year)

A series of 12 lectures given during the first month of the medical course to provide an historical orientation to the student entering upon the study of medicine.

2. HISTORY OF MEDICINE (Second year).

A series of 12 lectures providing a survey of the history of relationships between medicine and general culture, with reference to economics, politics, philosophy and religion.

DEPARTMENT OF INVESTIGATIVE MEDICINE

Professor

J. S. L. BROWNE, *Chairman*

Assistant Professors

C. J.-P. GIROUD

N. KALANT

Lecturers

IVAN BECK

C. I. CHAPPEL

M. M. GOLD

R. SCHUCHER

J. STACHENKO

R. WOLFE

The Department offers courses leading to the degrees of M.Sc. and Ph.D. in the Faculty of Graduate Studies and Research and provides research facilities for these students or for other persons proceeding to graduate

MEDICINE

degrees, diplomas or for other qualified individuals. The Department is also prepared to make arrangements to offer elective courses for Medical undergraduate students.

The courses and the direction of research in this department are given in close collaboration with the Department of Experimental Medicine and members of either department give lectures and direct the research of graduate students registered in the other.

Students may work either in the Medical Building or in one of a number of hospitals depending on the type of work done (clinical or laboratory) or upon the individual directing the research. Part of the function of the department is the correlation of clinical investigation being done at various hospitals.

Students holding either the M.D. or B.Sc. degree or its equivalent may enter the department provided that their standing is acceptable. For the list of courses and further details see the Calendar of the Faculty of Graduate Studies and Research.

DEPARTMENT OF MEDICINE

Professors

RONALD V. CHRISTIE, *Chairman*

D. G. CAMERON

Associate Professors:

D. V. BATES

M. M. HOFFMAN

J. C. BECK

J. G. HOWLETT

E. H. BENSLEY

A. L. JOHNSON

G. A. COPPING

LOUIS LOWENSTEIN

NEIL FEENEY

H. S. MITCHELL

C. W. FULLERTON

BRAM ROSE

G. W. HALPENNY

S. R. TOWNSEND

W. H. P. HILL

Assistant Professors:

A. F. FOWLER

C. J. PATTEE

L. G. JOHNSON

F. M. SMITH

K. R. MACKENZIE

P. B. STEWART

LESTER MCCALLUM

A. T. THOM

Lecturers:

M. ARONOVITCH

B. A. LEVITAN

C. M. BALLEM

A. D. MACDONALD

C. S. BARKER

C. C. MACDONALD

COURSES IN MEDICINE

R. G. BAXTER
M. R. BECKLAKE
J. O. W. BRABANDER
J. L. BRANDT
S. BROWN
LAUDER BRUNTON
LLOYD CASWELL
R. A. CLEGHORN
WILLIAM COHEN
P. A. EDWARDS
A. GOLD
ALEC GORDON
R. G. M. HARBERT
RONALD HOBKIRK
A. W. LAPIN
W. LEITH

Demonstrators:

J. R. ALBERT
EVA ARENDT
A. ARONOFF
DAVID BARZA
I. T. BECK
T. A. BROWN
PARKER CHESNEY
B. A. COOPER
S. R. COOPER
R. F. P. CRONYN
J. H. DARRAGH
N. M. K. DELEEuw
J. B. DOSSETOR
S. EIDINGER
C. M. FLINT
S. O. FREEDMAN
T. R. HALE
J. L. HUTCHISON
G. E. JORON
M. KAYE
D. G. KINNEAR

D. J. MacINTOSH
J. R. MARTIN
A. MILLER
R. O. MORGEN
M. NOTKIN
J. A. P. PARÉ
R. E. G. PLACE
J. S. POLSON
T. L. QUINTIN
E. A. S. REID
LORNE SHAPIRO
K. A. SOWDEN
MURRAY STALKER
P. G. WEIL
G. E. WIGHT
D. H. WOODHOUSE

A. KNIGHT
L. J. KORENBERG
L. KOVACS
W. A. R. LAING
W. K. MACDONALD
MELVIN McQUITTY
D. M. MARCUS
SAMUEL ORKIN
BERNARD POLLAK
S. L. RICHARDSON
JACK H. RUBIN
J. A. SHANKS
A. SHULMAN
P. SOMMERFREUND
C. H. STACEY
R. L. STANFORD
K. R. STEWART
DAVID STUBINGTON
E. A. TURCOT
J. WENER
J. C. G. YOUNG

MEDICINE

THERAPEUTICS

Associate Professors

C. W. FULLERTON

J. G. HOWLETT

Lecturers

G. H. FISK

A. MILLER

B. A. LEVITAN

DERMATOLOGY

Associate Professor

R. R. FORSEY

Assistant Professors

G. E. CRAIG

FREDERICK KALZ

B. D. USHER

Demonstrators

M. S. COHEN

ANNA FLINT

PAULA SCHOPFLOCHER

P. P. TELNER

EXPERIMENTAL MEDICINE

Professor

ELEANOR H. VENNING

Assistant Professors

MAXWELL RICHTER

DAVID RUBENSTEIN

N.B. See Announcement of the Faculty of Graduate Studies and Research.

THE CURRICULUM IN THE DEPARTMENT OF MEDICINE

FOREWORD

The object of the following courses is to impart a sound knowledge of the principles of general medicine in the diagnosis and treatment of disease, to afford a knowledge of the technique, and, above all, so to train the student that he will be enabled to cultivate the faculty of critical judgment. The mere instruction, of itself, is regarded as but a part of the course, while the personal contact of students, teachers, and patients throughout the final years is of prime importance.

The close correlation of physiology, anatomy, and biochemistry with clinical medicine is emphasized—not only in the pre-clinical years, but later in hospital and laboratory—thus affording students a modern scientific medical training. The importance of regarding the patient as a person is emphasized throughout.

COURSES IN MEDICINE

Unusual facilities are afforded at the Royal Victoria Hospital and at the Montreal General Hospital where there are extensive laboratories for the study of disease in all its phases. Excellent clinical facilities are afforded at both these hospitals, as well as by affiliation with other institutions.

REQUIRED COURSES

SECOND YEAR

COURSE II 1—INTEGRATION OF PHYSIOLOGY, BIOCHEMISTRY AND ANATOMY WITH MEDICINE

Time—Last term of Second year: three lectures a week.

Place—Medical Building.

Subject Material—This course covers in a systematic manner the deviations from the normal of the physiological and biochemical functions. These are correlated so as to explain symptoms and signs which may be found on physical examination as detected by clinical methods dealt with in Course II 2. This course is so interpreted as to give the student a panoramic view of these disturbances with a proper perspective.

COURSE II 2—A PRACTICAL COURSE IN CLINICAL METHODS

Time—Third term of Second year.

Place—Outpatient Departments of the Royal Victoria, Montreal General, and Queen Mary Veterans Hospitals.

Subject—Practical instruction 6 hours a week on Normal and Abnormal Physical Signs.

COURSE II 3—LABORATORY DIAGNOSIS

Time—Last term of Second year.

Place—Medical Building.

Subject—Instruction and practice 2 periods a week in microscopy as applied to clinical medicine.

Dr. Lauder Brunton and Assistants

THIRD YEAR

COURSE III 4—CASE REPORTING

During the trimester in Medicine students will be assigned patients in the wards. They will be required to write case histories, make a general examination, note progress, and do such laboratory investigations as are within their scope and have access to all other Laboratory and X-Ray findings. Teaching Fellows will be available to assist students

MEDICINE

in this work. Bedside clinics and seminars are conducted by members of the attending staff. Experience in Dermatology and other medical specialties is provided.

COURSE III 5—CLINICO-PATHOLOGICAL CONFERENCE

Time—Weekly during the medical term.

Place—The Royal Victoria and the Montreal General Hospitals.

COURSE III 6—Integration of Physiology, Biochemistry and Anatomy with Medicine—a continuation of course II. One lecture a week for 2 terms, two lectures a week for the third term.

COURSE III 7—THERAPEUTICS

A course of 20 lectures on the principles of therapeutics and on the treatment of various diseases for which clinical material is not readily available.

FOURTH YEAR

COURSE IV 8—CASE REPORTING

An effort is made to enable the student in the Fourth year to take an active part in the care of the patient, both in the wards and in the Out-door Clinics. One month will be spent on the wards and one month in the "Comprehensive Clinic" of the outpatient department. Bedside clinics and seminars are conducted by members of the attending staff. Experience in Dermatology and other medical specialties is provided.

COURSE IV 9—CLINICAL PATHOLOGICAL CONFERENCE

Time—Once a week during the medical term.

Place—The Royal Victoria and the Montreal General Hospitals.

TEXT AND REFERENCE BOOKS

The following books have been classified under general headings and are merely suggestions from which the student may choose according to his own needs. The list is not intended to be exclusive; there are other text books which the student may prefer. The list of reference books is given for information.

Clinical and Laboratory Methods and Physical Diagnosis: R. C. Cabot and F. D. Adams, *Physical Diagnosis*, 13th ed. (Wood 1942); R. B. H. Gradwohl, *Clinical Laboratory Methods and Diagnosis*, 5th ed. 2 vols.

(Mosby 1956); T. H. Ham, ed., *A Syllabus of Laboratory Examination in Clinical Diagnosis* (Harvard Univ. Pr. 1952); Hutchison's *Clinical Methods* by Donald Hunter and R. R. Bomford, 13th ed. (Cassell 1956); S. S. Leopold, *The Principles and Methods of Physical Diagnosis*, 2nd ed. (Saunders 1957); McGill University, Dept. of Medicine, *Guide to Medical Case Reporting*, 3rd ed., 1950; R. H. Major and M. H. Delp, *Physical Diagnosis*, 5th ed. (Saunders 1956); J. C. Todd *et al.*, *Clinical Diagnosis by Laboratory Methods*, 12th ed. (Saunders 1953); Harry Walker, *Physical Diagnosis* (Mosby 1952).

Physio-Pathology: C. H. Best and N. B. Taylor, *The Physiological Basis of Medical Practice*, 6th ed. (Williams and Wilkins 1955); Meyer Bodansky and Oscar Bodansky, *Biochemistry of Disease*, 2nd ed. N.Y. (Macmillan 1952); Abraham Cantarow and Max. Trumper, *Clinical Biochemistry*, 5th ed. (Saunders 1955); C. H. Gray, *Clinical Chemical Pathology* (Williams and Wilkins 1953); J. P. Peters and D. D. Van Slyke, *Quantitative Clinical Chemistry*, vol. 1: *Interpretations*, 2nd ed. (Williams and Wilkins 1946); W. A. Sodeman, *Pathologic Physiology*, 2nd ed. (Saunders 1956); Samson Wright, *Applied Physiology*, 9th ed. (Oxford 1952).

General Medicine: R. L. Cecil and R. F. Loeb, *Textbook of Medicine*, 10th ed. (Saunders 1959); J. J. Conybeare and W. N. Mann, *Textbook of Medicine*, 12th ed. (Livingstone 1957); L. S. P. Davidson, *Principles and Practice of Medicine*, 4th ed. (Livingstone 1958); T. R. Harrison, *Principles of Internal Medicine*, 3rd ed. (Blakiston, 1958); J. C. Meakins, *Practice of Medicine*, 6th ed. (Mosby 1956); W. M. Yater, *Fundamentals of Internal Medicine*, 4th ed. (Appleton 1954).

Differential Diagnosis: W. M. Barton and W. M. Yater, *Symptom Diagnosis*, 4th ed. (Appleton 1942); T. D. Savill, *System of Clinical Medicine*, 12th ed. (Williams and Wilkins 1944).

Dermatology: R. W. MacKenna, *Diseases of the Skin* by R. M. B. MacKenna, 5th ed. (Bailliere 1952); Norman Tobias, *Essentials of Dermatology*, 5th ed. (Lippincott 1956); Norman Walker and G. H. Percival, *Introduction to Dermatology*, 12th ed. (Livingstone 1956).

Miscellaneous Reference Books: G. G. Duncan, *Diseases of Metabolism*, 4th ed. (Saunders, 1959); C. K. Friedberg, *Diseases of the Heart*, 2nd ed. (Saunders 1956); E. P. Joslin, *Diabetic Manual for the Doctor and Patient*, 10th ed. (Lea and Febiger 1959); J. S. McLester and W. J. Darby, *Nutrition and Diet in Health and Disease*, 7th ed. (Saunders 1958); O. S. Ormsby and Hamilton Montgomery, *Diseases of the Skin*, 8th ed. (Lea and Febiger 1954); E. H. Rubin, *Diseases of the Chest* (Saunders 1947); Samuel Soskin, *Progress in Clinical Endocrinology*

(Grune 1950); R. L. Sutton and R. L. Sutton, *Diseases of the Skin*, 11th ed. (Mosby 1956); H. B. Taussig, *Congenital Malformations of the Heart* (Oxford 1948); L. E. H. Whitby and C. J. C. Britton, *Disorders of the Blood*, 8th ed. (Churchill, 1957); M. M. Wintrobe, *Clinical Hematology*, 4th ed. (Lea and Febiger 1956).

DEPARTMENT OF NEUROLOGY AND NEUROSURGERY

*Chairman and Professor of Neurology
and Neurosurgery*

THEODORE RASMUSSEN

Professor of Neurology

FRANCIS MCNAUGHTON

Professor of Neurosurgery

WILLIAM FEINDEL

Professor of Experimental Neurology

HERBERT JASPER

*Professor (Biochemistry) and Director Donner
Laboratory of Neurochemistry*

K. A. C. ELLIOTT

Associate Professor of Neurosurgery

ARTHUR ELVIDGE

Associate Professor of Neurological Radiology

DONALD McRAE

Assistant Professors of Neurology

J. B. R. COSGROVE

D. L. LLOYD-SMITH

PRESTON ROBB

W. F. T. TATLOW

Assistant Professor of Neuropathology

GORDON MATHIESON

Assistant Professors of Neurosurgery

HAROLD ELLIOTT

GILLES BERTRAND

Assistant Professor of Experimental Neurology

PIERRE GLOOR

Lecturers in Neurology

BERNARD GRAHAM

IRVING HELLER

D. E. HOWELL

REUBEN RABINOVITCH

Lecturer in Neurosurgery

CHARLES BRANCH

Lecturer in Experimental Neurology

HANNA PAPIUS

Lecturer in Clinical Psychology

BRENDA MILNER

Demonstrators in Neurology

FREDERICK ANDERMANN

ALLAN MORTON

TERESITA ELIZAN

Demonstrators in Neurosurgery

D. R. GULATI

ANTONE TARAZI

GORDON THOMPSON

Demonstrator in Neuropathology

JOHN JANE

Demonstrator in Electroencephalography

LEWIS HENDERSON

COURSES IN NEUROLOGY AND NEUROSURGERY

Fellows of the Montreal Neurological Institute:

J. ANTONIO AGUILAR	ISRAEL LIBMAN
FREDERICK ANDERMANN	JERZY MAJKOWSKI
ANDRE BARBEAU	PABLO MARIN
JESSE BARBER	MIROSLAV MASSAKOWSKI
EVERETT BOVARD	HUNTINGTON MAVOR
RICHARD BROWN	ROGER MORRELL
FLOYD COOPER	ROSARIO MUSELLA
VIJAY DAVE	WILBUR MCCRUM
TERESITA ELIZAN	JEWELL OSTERHOLM
GARTH EMBREE	PHANOR PEROT
HENRY GARRETSON	RICHARD ROVIT
RAYMOND GIGUÈRE	HUGH SAMSON
DANIEL GONZALEZ	ALLAN SHERWIN
JAN GYBELS	LUIGI SPERTI
JULES HARDY	PRAKASH TANDON
J. C. JACOB	CHRISTIAN VERA
KENNETH KAPPAHN	CURTIS WITHROW

SECOND YEAR

- 2A INTRODUCTION TO THE CENTRAL NERVOUS SYSTEM. Combined course given by the Departments of Anatomy, Neurology and Neurosurgery, Physiology and Psychology. Two hours lecture, three hours laboratory and one hour demonstration per week, during the second term and two hours lecture per week during the third term.

Professors McNaughton, Jasper, Burns and Hebb

- 2B INSTRUCTION IN CLINICAL EXAMINATION OF THE NERVOUS SYSTEM. Given in conjunction with the Department of Medicine in the third term.

- 2C NEUROPATHOLOGY. Given in conjunction with the Department of Pathology in the third term.

Professor Mathieson

- 2D APPLIED PHYSIOLOGY (Department of Medicine). Six lectures.

Professors Rasmussen, McNaughton and Staff

THIRD YEAR

- 3A CLERKSHIP IN NEUROLOGY AND NEUROSURGERY. Four afternoons per week for three weeks, at the Montreal Neurological Institute.

Professors Rasmussen, McNaughton and Staff

- 3B SURVEY LECTURES, DISEASES OF THE NERVOUS SYSTEM. 12 lectures given during the first term.

Professors Rasmussen, McNaughton and Staff

- 3C CLINICS AND CONFERENCES IN CONJUNCTION WITH THE DEPARTMENTS OF MEDICINE AND SURGERY.

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FOURTH YEAR

CLINICS AND CONFERENCES IN CONJUNCTION WITH THE DEPARTMENTS OF MEDICINE AND SURGERY.

ELECTIVE COURSES

A. SEMINAR IN NEUROANATOMY, M.N.I.

1. This course is given in combination with course 2A "Introduction to the Central Nervous System."
2. Additional graduate seminars will be held co-ordinated with Course B.
3. Graduate students are expected to act as demonstrators and to pass the same examination which is given in undergraduate course 2A, but with higher standing.
Professor McNaughton
4. Advanced Neuroanatomy for selected group; times to be arranged.
Professor McNaughton

B. SEMINAR IN NEUROPHYSIOLOGY.

1. Lectures and examination together with undergraduate course 2A "Introduction to the Central Nervous System".
2. Weekly seminars and demonstrations co-ordinated with Course A-2 (4 months, beginning in December). Mondays, 4:30 to 6:00 p.m.
3. Under exceptional circumstances, a paper on a neuro-physiological subject may be written by special arrangements as a substitute for B-1.
Professors Jasper, Elliott and Gloor

C. COLLOQUIUM IN CLINICAL NEUROLOGY.

- 1 hour weekly, clinics and lectures, Wednesdays, 5:00 p.m. M.N.I.
(9 months).
Staff and Visiting Lecturers

D. SEIZURE MECHANISMS AND CEREBRAL LOCALIZATION: CLINICAL ELECTRO-ENCEPHALOGRAPHIC, AND ROENTGENOGRAPHIC CONFERENCE.

- M.N.I. 1½ hours weekly (9 months). Tuesdays, 4:00 to 5:30 p.m.
Professors Rasmussen, Jasper, McNaughton and McRae

E. OUTLINE OF NEUROCHEMISTRY

- Instruction in neurochemistry in addition to that provided in course B-2 may be obtained by special arrangement.
Professor Elliott

F. NEUROPATHOLOGY.

1. Six months laboratory work in medical or surgical neuropathology.
Professors Mathieson and Bertrand

COURSES IN OBSTETRICS AND GYNAECOLOGY

2. Conference in neuropathology, Friday 4-5 p.m.

Professors Mathieson and Bertrand

3. Introduction to Histopathology of the Nervous System.

A short basic course for a limited number. By special arrangement with Professor Mathieson.

For graduate credit, courses Nos. 1 and 2 are required. Under special circumstances written and/or oral examinations may be substituted for Nos. 1 and 2 for students who have taken course No. 3.

G. NEUROLOGICAL RADIOLOGY.

1. Lecture demonstrations (3 months beginning in September). Mondays 4:30 to 6:00 p.m.

2. Colloquium, 1 hour weekly (9 months) Mondays, 9:00 a.m.

Professor McRae

DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY

Professor

G. B. MAUGHAN, *Chairman*

Associate Professors

W. R. FOOTE

J. P. A. LATOUR

K. T. MACFARLANE

G. A. SIMPSON

Assistant Professors

J. L. MACARTHUR

T. PRIMROSE

D. W. SPARLING

G. J. STREAN

Lecturers

P. R. BLAHEY

GRACE DONNELLY

SIMON GOLD

M. HENDELMAN

J. H. ROUTLEDGE

F. J. TWEEDIE

M. H. V. YOUNG

Demonstrators

G. H. ARRONET

H. B. BOURNE

J. R. DODDS

J. S. HENRY, JR.

E. A. MACCALLUM

H. OXORN

R. M. PARSONS

J. PORTNUFF

P. C. TREMBLAY

The course is designed to impart a fundamental knowledge of the processes of human parturition, gynaecology and the care of the New-born. The student is introduced to the subject in his Second year. Thereafter in

MEDICINE

both his Third and Fourth years, intensive teaching is carried out using to the full the facilities of the Royal Victoria Montreal Maternity Hospital and to a lesser extent the gynaecological wards of the Montreal General Hospital. The Royal Victoria Montreal Maternity Hospital is the largest teaching unit of its kind in Canada and the clinical material to be found in its wards is unsurpassed.

REQUIRED COURSES

SECOND YEAR—

An introductory course of twelve lectures is given by Professor Maughan during the last term. Following a review of the embryology and anatomy of the female genital tract the particular biochemical and endocrine aspects of the subject are taken up. The course closes with a description of the physiology of pregnancy and labour. Lectures are held in the Medical Building, McGill University.

THIRD YEAR—

OBSTETRICS

During this year, twenty-eight lectures are given to teach the fundamentals of pregnancy, labour and the puerperium by the members of the Royal Victoria Montreal Maternity Hospital Staff. Following this series the Montreal General Hospital Staff conduct five lecture classes as an introduction to gynaecology. Medical Building, McGill University.

An intensive six week's instruction in obstetrics is given each group of students during the academic year by the Staff of the Royal Victoria Montreal Maternity Hospital. Students group are further divided into smaller tutorial units so that individual students can be given the greatest opportunity to take part in the practical work of the class.

Eighteen hours are devoted to Manikin Instruction. Physical diagnosis at the bedside and Clinical Management in the wards and case rooms are allocated six hours each.

Professor Maughan conducts six seminars on the Principles and Theory of Obstetrics and a further six hours are taken up by the members of the Staff in reviewing current work in the subject.

Six hours of gynaecological colloquia are given by a senior member of the Royal Victoria Montreal Maternity Hospital Staff to augment the gynaecological teaching noted below.

Students are also required to attend Departmental Ward Rounds in the Royal Victoria Montreal Maternity Hospital when interesting cases are discussed and lectures given on the latest advances in the field.

COURSES IN GYNAECOLOGY

Six classes are given by Doctor G. Nickerson, Paediatrician-in-Chief of the Royal Victoria Hospital and his Staff to introduce the student to the care of the new-born.

GYNAECOLOGY

Thirty-six demonstrations or lectures at the bedside or in the Out-Patient Department, to demonstrate the diagnosis and treatment of gynaecological disorders.

*Professor MacFarlane and Assistants,
Montreal General Hospital.*

FOURTH YEAR—

No formal lectures are given during the intensive four week course in obstetrics and gynaecology which is held entirely in the Royal Victoria Montreal Maternity Hospital. Students are coached in small groups and will live in the hospital for at least nine days. While living in, they are expected to participate in the work of the delivery rooms and wards. Written case reports are required and the student's progress is assessed partly on the care taken in the recording of the assigned cases and their follow-up. Teaching is divided between obstetrics and gynaecology using the facilities of the indoor and outdoor departments.

A four hour refresher course in Manikin is given.

Professor Maughan conducts group hospital rounds once a week.

Twenty-four hours are devoted to bedside clinics on antepartum and parturition management of the obstetrical patient with particular emphasis on the recognition and treatment of complications.

Eight hours of revision seminars.

Doctor Primrose

Sixteen hours are devoted to the discussion of problems presented by the students.

R.V.M.M.H. Staff

Attendance at Outdoor clinics four afternoons a week is compulsory. Minor gynaecology and antepartum care are taught by the Staff members in charge of the cases. Students are also required to be present at Departmental Staff rounds each Wednesday morning during term.

Twelve bedside clinics are given in gynaecology by members of the Staff.

Eight lecture-demonstrations in Gynaecological Pathology are given by Doctor Latour and assistants who are also responsible for four hours of clinical instruction on the diagnosis and treatment of genital cancer.

Clinical Endocrinology is reviewed in four sessions of one hour.

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Doctor Nickerson and Staff offer four lectures on New-born Paediatrics together with eight demonstrations in the nurseries.

Obstetrics textbooks: R. W. Johnstone and R. J. Kellar, Textbook of Midwifery, 17th ed. (Black 1957); N. J. Eastman, Williams' Obstetrics, 11th ed. (Appleton 1956).

Gynaecological textbooks: F. W. Roques, Diseases of Women, 9th ed. (Arnold 1953).

DEPARTMENT OF OPHTHALMOLOGY

<i>Professor</i>	JOHN C. LOCKE, <i>Chairman</i>
<i>Associate Professor</i>	BENJAMIN ALEXANDER J. V. V. NICHOLLS
<i>Assistant Professor</i>	R. J. VIGER
<i>Lecturers</i>	S. T. ADAMS R. A. BOURNE L. S. S. KIRSCHBERG SEAN B. MURPHY WILLIAM TURNBULL
<i>Demonstrators</i>	J. B. CONROY HUGH DUNCAN R. W. PEARMAN R. B. RAMSEY
<i>Teaching Fellow</i>	JOHN A. FOREMAN

The undergraduate work in Ophthalmology is designed to meet the needs of a well-trained general practitioner and embraces the following courses in the Second, Third and Fourth years of the Medical course:

SECOND YEAR

1. ROUTINE EXAMINATION OF THE EYE.

The various tests used in routine examination of the eye are demonstrated. Instruction in the use of the ophthalmoscope is emphasized.
Five hours.

2. PATHOLOGY OF THE EYE.

Six hours: two periods of three hours each.

COURSES IN OPHTHALMOLOGY

THIRD YEAR

1. LECTURES TO THE ENTIRE CLASS.

These provide a survey of the entire field and are designed to furnish a background of essential information for the clinical work.

Twelve hours.

2. PRACTICAL OPHTHALMOSCOPY.

Montreal General and Royal Victoria Hospitals.

Nine hours.

3. ELECTIVE COURSE IN OPHTHALMOLOGY.

This four-week course is given three times during the latter half of the Third year. The number of students in any four-week period is limited to two. Most of the time is spent at the Montreal General and Royal Victoria Hospitals. Teaching in Paediatric Ophthalmology is divided between the Royal Victoria and Montreal Children's Hospitals. A varied and intensive program of practical and didactic instruction is provided.

The classes include attendance at general and special clinics, at ward rounds and seminars, and at formal demonstrations and tutorials. Scheduled periods in the eye operating room provide the opportunity to observe the more common operative procedures. The students are assisted in the preparation of an assigned topic which requires them to consult current ophthalmic literature. Instruction in specialized methods of examination of the eye is provided. Emphasis is placed on the participation of the eye in systemic diseases and on eye diseases which the general practitioner will be called upon to treat.

FOURTH YEAR

1. PRACTICAL CLINICAL OPHTHALMOLOGY

Cases from the eye outpatient and indoor services are presented and discussed. Emphasis is on ocular problems that are of greatest moment in general practice.

Nine hours.

Textbooks: Francis H. Alder, Gifford's Textbook of Ophthalmology, 6th ed. (Saunders, 1957); C. A. Perera, May's Manual of the Diseases of the Eye, 21st ed. (Williams and Wilkins, 1953).

Reference books: W. S. Duke-Elder, Textbook of Ophthalmology, 7 vols. (Mosby, 1932-54); Eugene Wolff, Anatomy of the Eye and Orbit (Blakiston, 1954); Eugene Wolff, Pathology of the Eye, 3rd ed. (Blakiston, 1951); Francis H. Adler, Physiology of the Eye, 3rd ed. (Mosby, 1959).

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DEPARTMENT OF OTO-LARYNGOLOGY

<i>Professor</i>	W. J. McNALLY, <i>Chairman</i>
<i>Assistant Professors</i>	E. E. SCHARFE E. A. STUART
<i>Lecturers</i>	H. E. McHUGH
<i>Demonstrators</i>	J. D. BAXTER ARNOLD GROSSMAN R. HALL MCCOY G. T. SHIMO E. JOHN SMITH

Instruction in Oto-Laryngology is given to students in each of the four years and is designed to meet the needs of the general practitioner. The clinical courses are conducted in the wards and out-patient departments of the Montreal General, the Royal Victoria and the Montreal Children's Hospitals. The practical demonstrations are given before small groups of students.

SECOND YEAR

Physical diagnosis is taught in the Second year in six demonstrations. The students review the anatomy of the ears, nose and throat and are taught to use the head mirror and the special instruments more commonly used in the examination of these parts.

THIRD YEAR

Clinical instruction in the Out-door Clinics and wards is given to small groups in "block time" consisting of consecutive mornings for one week for each group. Twelve lectures on Ear, Nose and Throat subjects are given to this class as a whole during the third term.

FOURTH YEAR

Clinical instruction is carried out in the Out-patient departments in small groups and the students are given as much personal supervision as possible. The students attend two clinics per week for eight consecutive weeks and take an active part in the examination and treatment of the patients.

ELECTIVE COURSES

The new curriculum provides for Elective Courses of one month in this specialty or in combination with Ophthalmology.

COURSES IN PAEDIATRICS

Text and Reference Books: H. C. Ballenger and J. J. Ballenger, A Manual of Otology, Rhinology and Laryngology, 4th ed. (Lea and Febiger 1954); L. R. Boies, Fundamentals of Otolaryngology, 3rd ed. (Saunders 1959); Chevalier Jackson and C. L. Jackson, Bronchoesophagology (Saunders 1950); Chevalier Jackson and C. L. Jackson, Diseases of the Nose, Throat and Ear, 2nd ed. (Saunders 1957); W. W. Morrison, Diseases of the Ear, Nose and Throat, 2nd ed. (Appleton 1955); St. Clair Thomson and V. E. Negus, Diseases of the Nose and Throat, 6th ed. (Cassell 1955); A. Logan Turner, Diseases of the Nose, Throat and Ear, 5th ed. (Wright 1952); T. G. Wilson, Diseases of the Ear, Nose and Throat in Children (Heinemann 1955); G. D. Wolf, Ear, Nose and Throat (Lippincott 1947).

DEPARTMENT OF PAEDIATRICS

Professor ALAN ROSS, *Chairman*

Associate Professors R. L. DENTON
A. L. JOHNSON
E. M. WORDEN

Assistant Professor P. N. MACDERMOT

Lecturers H. L. BACAL
BEN BENJAMIN
J. H. O'NEILL

Demonstrators

P. BANISTER	ELIZABETH HILLMAN
HELEN BRICKMAN	DAVID KLEIN
J. S. CHARTERS	A. J. MARKUS
D. K. CLOGG	FRANCES MCCALL
T. A. COWAN	D. R. MCCRIMMON
S. I. DOUBILET	G. H. NICKERSON
J. H. ELDER	SYDNEY PEDVIS
F. CLARK FRASER	PIERRE SENECAI
J. E. GIBBONS	FREDERICK SHIPPAM
R. B. GOLDBLOOM	HYMAN SURCHIN
VICTOR C. GOLDBLOOM	W. W. TIDMARSH
R. GOURDEAU	S. J. USHER
ELEANOR HARPUR	ISOBEL WRIGHT
D. A. HILLMAN	

Teaching Fellows

M. M. BELMONTE
H. R. BRODIE
R. USHER

MEDICINE

REQUIRED COURSES

LECTURES

1. (a) CHILD DEVELOPMENT AND HUMAN RELATIONSHIPS

In the course of twelve periods with the First year class, a child psychiatrist and a paediatrician collaborate at each session in presenting various aspects of child development from the prenatal period to adolescence. With the aid of patients and appropriate films, human relations and their development are discussed from the broadest possible point of view.

(b) A series of 24 lectures once weekly during the Third year designed to cover the various aspects of Diseases of Children; Nutrition, Hygiene, Infections and Communicable Diseases, Preventive Medicine, etc. *Staff*

2. DISEASES OF THE NEWBORN: ROYAL VICTORIA MONTREAL MATERNITY HOSPITAL

(a) A weekly clinic demonstration to groups of students of the Third year during their obstetrical quarter.

(b) A weekly lecture to groups of Fourth year students during their four weeks in Obstetrics.

(c) A bi-weekly demonstration in the nurseries to the group of Fourth year students in residence during their four weeks in Obstetrics. *Staff*

3. CLINICAL PAEDIATRICS

(a) Groups during the final year spend eight weeks entirely at the Montreal Children's Hospital as clinical clerks taking part in bedside clinical conferences and, under supervision, caring for patients in the outpatient department.

(b) Normal growth and development, the care and feeding of the normal infant, immunization procedures, and preventive paediatrics are taught at the Child Health Clinic in the Montreal Children's Hospital. *Staff*

(c) A series of demonstrations to groups of students on the common infectious diseases is given at the Alexandra Hospital as part of the instruction of the final year. *Staff*

Textbooks: W. E. Nelson, *Textbook of Pediatrics*, 7th ed. (Saunders 1959); D. H. Paterson and J. F. McCreary, *Pediatrics* (Lippincott 1956).

Reference Books: J. P. Caffey, *Pediatric X-ray Diagnosis*, 3rd ed. (Year Bk. Pubs. 1956); A. G. DeSanctis and Chas. Varga, *Handbook of Pediatric Medical Emergencies*, 2nd ed. (Mosby 1956); J. L. Gamble, *Chemical*

COURSES IN PARASITOLOGY

Anatomy, Physiology and Pathology of Extracellular Fluid (Harvard Univ. Pr. 1954); A. L. Gesell, *The Embryology of Behavior, the Beginnings of the Human Mind* (Harper 1945); Morris Green and J. B. Richmond, *Pediatric Diagnosis* (Saunders 1954); Leo Kanner, *Child Psychiatry*, 3rd ed. (Thomas 1957); J. D. Keith, R. D. Rowe and Peter Vlad, *Heart Disease in Infancy and Childhood*, N.Y. (Macmillan 1958); C. A. Smith, *The Physiology of the Newborn Infant*, 3rd ed. (Thomas 1959); Lawson Wilkins, *Diagnosis and Treatment of Endocrine Disorders in Childhood and Adolescence*, 2nd ed. (Thomas 1957).

INSTITUTE OF PARASITOLOGY

<i>Professor</i>	T. W. M. CAMERON, <i>Director</i>
<i>Associate Professors</i>	D. FAIRBAIRN M. LAIRD
<i>Assistant Professors</i>	R. P. HARPUR G. A. SCHAD C. E. TANNER
<i>Research Associates</i>	G. LUBINSKY E. MEEROVITCH G. A. WEBSTER

REQUIRED COURSES

SECOND YEAR

The animal parasites of man (protozoa, helminths and arthropods) are considered as an integral part of the Second year course in Medical Microbiology (see p. 1622). Exotic parasites are discussed briefly.

ELECTIVE COURSES

The Institute not only provides facilities for advanced research work at the Institute of Parasitology, but offers didactic courses in general and comparative parasitology and courses leading to the degrees of M.Sc., and Ph.D. (See Announcement of the Faculty of Graduate Studies and Research.)

Textbook: T. W. M. Cameron, *The Parasites of Man in Temperate Climates*, 2nd ed. (Univ. of Toronto Pr. 1946).

DEPARTMENT OF PATHOLOGY

<i>Strathcona Professor</i>	G. C. McMILLAN, <i>Chairman</i>
<i>Associate Professors</i>	W. H. MATHEWS A. C. RITCHIE F. W. WIGLESWORTH

MEDICINE

Assistant Professors

D. S. KAHN
W. J. PIROZYNSKI
H. SHELDON

Lecturers

G. MATHIESON
SUSAN RITCHIE
PAULA H. SCHOPFLOCHER
M. A. SIMON

Demonstrators

ILONA KERNER
J. P. LATOUR
S. MOORE

REQUIRED COURSES

1. COURSE IN GENERAL PATHOLOGY (FIRST YEAR)

- A. Illustrated lectures during the Spring term totalling 36 hours.
Professors McMillan and Ritchie
- B. Practical laboratory classes during the Spring term totalling 72 hours.
Professor Pirozynski and Demonstrators

2. COURSE IN SPECIAL PATHOLOGY (SECOND YEAR)

- A. Illustrated lectures throughout the Second year totalling 72 hours.
Professor McMillan and Staff
- B. Practical laboratory classes throughout the Second year totalling 72 hours.
Staff
- C. Group demonstrations throughout the Second year totalling 72 hours.
Staff

3. COURSE IN APPLIED PATHOLOGY (THIRD AND FOURTH YEARS)

- A. Clinico-pathological Conferences alternate weeks throughout the Third year totalling 54 hours.
Professor McMillan and Staff
- B. Instruction in the performance of autopsies with demonstration of autopsy findings during the Fourth year.

Pathological Institute *Professor Pirozynski*
Montreal General Hospital *Professor Mathews*
The Montreal Children's Hospital *Professor Wiglesworth*

Textbooks: W. A. D. Anderson, Pathology, 3rd ed. (Mosby 1957); Wm. Boyd, A Textbook of Pathology, 6th ed. (Lea and Febiger 1953); Wm. Boyd, Pathology for the Surgeon, 7th ed. (Saunders 1955); Wm. Boyd, Pathology for the Physician, 6th ed. (Lea and Febiger 1958).

Reference Books: J. G. Greenfield et al., Neuropathology (Arnold 1958); G. D. Lumb, Tumours of Lymphoid tissue (Livingstone 1954); E. Novak, and E. R. Novak, Gynecologic and Obstetric Pathology, 4th ed. (Saunders 1958); R. A. Willis, Pathology of Tumours, 2nd ed. (Butterworth 1953).

COURSES IN PHARMACOLOGY

DEPARTMENT OF PHARMACOLOGY

<i>Professor</i>	K. I. MELVILLE, <i>Chairman</i>
<i>Assistant Professors</i>	B. G. BENFEY N. R. EADE
<i>Lecturers</i>	L. E. FRANCIS G. E. JORON H. E. SHISTER
<i>Demonstrators</i>	R. A. MILLAR

The object of the course in pharmacology is to elucidate, as far as knowledge permits, the action of drugs, and thereby lay a sound foundation for drug therapy.

REQUIRED COURSES

1A. PHARMACOLOGY

The action of drugs is considered on the basis of information derived by means of experimental methods and careful clinical observation. The chemistry of the drugs studied is emphasized in order that the student may have a good foundation upon which to follow future developments of the subject intelligently.

Two lectures a week during the Autumn and Winter terms. Second year.

1B. PHARMACOLOGICAL LABORATORY

The experiments are chosen to illustrate the lecture course.

One period (three hours) a week during the Autumn and Winter terms.

CONFERENCES

During the year four conferences of 45 minutes each and limited to six students, will be arranged. These conferences will replace the regular laboratory periods at the times specified.

LECTURE-DEMONSTRATIONS

In conjunction with the Department of Medicine (Therapeutics) a series of six (6) one hour lecture-demonstrations is held in the Teaching Hospitals during the course. These are designed to present selected clinical cases illustrating practical applications of drug usage.

MEDICINE

2. TOXICOLOGY

A course of ten lectures devoted to the problems of *acute poisoning* (occurrence, symptoms, modifying factors, diagnosis and treatment), is given during the 3rd term of the Second year. *Dr. G. E. Joron*

Textbooks: Harry Beckman, *Drugs, their Nature, Action and Use* (Saunders 1958); *Applied Pharmacology* (Clark), 9th ed., by Andrew Wilson and H. O. Schild (Churchill 1959); V. A. Drill, *Pharmacology in Medicine*, 2nd ed. (McGraw-Hill 1958); L. S. Goodman and A. Z. Gilman, *Pharmacological Basis of Therapeutics*, 2nd ed. (Macmillan 1955); J. C. Krantz and C. J. Carr, *Pharmacologic Principles of Medical Practice*, 4th ed. (Williams and Wilkins 1958).

ELECTIVES

Suitably prepared students may undertake special research or training projects under direction of a staff member at any time, by application to the Chairman of the Department.

Advanced courses leading to the degrees of M.Sc. or Ph.D. will be arranged to suit individual cases. See Announcement of the Faculty of Graduate Studies.

DEPARTMENT OF PHYSIOLOGY

Joseph Morley Drake Professor F. C. MACINTOSH, *Chairman*
Prefessors A. S. V. BURGEN
B. D. BURNS

Assistant Professors

R. I. BIRKS
SIMON DWORKIN
BERNICE GRAFSTEIN
PAUL SEKELJ
KATHLEEN G. TERROUX

Lecturers

CARL PINSKY
C. M. MCBRIDE
E. J. REININGER
O. M. SOLANDT

Sessional Lecturer

HYMAN WEINER

REQUIRED COURSES

FIRST YEAR

BIOCHEMISTRY—PHYSIOLOGY 1.

Monday to Friday, at 9 a.m.

BIOCHEMISTRY—PHYSIOLOGY 1D.

Demonstrations and tutorials: one hour a week.

COURSES IN PSYCHIATRY

BIOCHEMISTRY—PHYSIOLOGY 1L.

Laboratory: six hours a week.

This is an integrated course of lectures, tutorials, demonstrations and laboratory work, given by the two departments.

INTRODUCTION TO MEDICINE

One hour a week, from October. A presentation of selected clinical material, from the standpoint of the basic medical sciences. The sessions are conducted in turn by the Departments of Anatomy, Biochemistry, and Physiology.

SECOND YEAR

2. ANATOMY AND PHYSIOLOGY OF THE CENTRAL NERVOUS SYSTEM

Two hours lecture, two hours laboratory, and one hour demonstration a week, during the second term.

This is one course, given by the Departments of Anatomy, Neurology and Neurosurgery, and Physiology.

ELECTIVE COURSES

1E. SELECTED TOPICS IN PHYSIOLOGY

These are discussed from the point of view of current research in the Department.

2 hours a week.

3E. RESEARCH IN BIOCHEMISTRY AND PHYSIOLOGY

A limited number of students may take Biochemistry or Physiology as elective subject in their Third year. These students will be given the opportunity of participating in departmental research projects.

DEPARTMENT OF PSYCHIATRY

Professors

D. E. CAMERON, *Chairman*

A. E. MOLL

Associate Professors

R. A. CLEGHORN

T. E. DANCEY

H. LEHMANN

A. W. MACLEOD

R. B. MALMO

M. SAFFRAN

BARUCH SILVERMAN

T. L. SOURKES

TAYLOR STATTON

E. D. WITTKOWER

MEDICINE

Assistant Professors

S. ALBERT
J. AUFREITER
H. AZIMA
T. J. BOAG
C. BOS
H. CAPLAN
B. M. CORMIER
J. F. DAVIS
P. EDGELL
H. F. ELLENBERGER
N. B. EPSTEIN
L. G. HISEY
V. A. KRAL
H. B. MURPHY
M. S. RABINOVITCH
C. A. ROBERTS

Lecturers

G. AUFREITER	H. KRAVITZ
F. AZIMA	ALAN MANN
S. BARZA	L. MERGLER
J. BEAUBIEN	R. H. PRINCE
M. K. BIRMINGHAM	G. J. SARWER-FONER
C. H. CAHN	C. H. SKITCH
H. B. DUROST	C. C. SMITH
B. GRAD	J. C. STANLEY
R. C. M. HAMILTON	W. STRAKER
BRIAN HUNT	G. C. TAYLOR
R. C. A. HUNTER	S. WILNER

Demonstrators

R. L. DE VERTEUIL	F. W. LUNDELL
K. FERGUSON	J. MACKAY
G. HANRAHAN	H. F. MULLER
W. G. KRAUSER	J. NAIMAN
J. L. LAPOINTE	G. O. PATTON
E. LESTER	P. D. ROPER
D. LEVIN	A. RUSSELL
L. LEVY	R. M. SMITH
E. LIBMAN	W. J. STAUBLE
Z. J. LIPOWSKI	

REQUIRED COURSES

FIRST YEAR

GROWTH, DEVELOPMENT AND HUMAN RELATIONSHIPS: A total of 16 hours, the first two being introductory lectures in psychobiology. The remaining

COURSES IN RADIOLOGY

hours of the course will include technique of child examination, diagnosis of child psychiatric states, child psychiatric problems as seen in various treatment facilities, including paediatrics out-patient clinic.

Professors Cameron, Statten, Ross (Paediatrics) and Staffs

SECOND YEAR

Two courses of lectures: (a) 12 1-hour lectures on psychopathology; (b) 12 2-hour sessions on psychiatric case studies, with case presentation.

Professors Roberts, Lehman and Staff

THIRD YEAR

Six weeks block teaching, distributed among six teaching centres, to acquaint students with the examination of patients and understanding of some of the major factors involved in abnormal behaviour. Diagnostic procedures, psychotherapeutic and physical methods of treatment, will be among the aspects covered. During this year students will be provided with tutors on a group basis and will also have more specialized training in the areas of child psychiatry, community psychiatry and mental disorders.

Professors Cameron, Moll, Dancey, Roberts, Statten, Silverman and Staffs

FOURTH YEAR

The teaching in this year will be largely focused on clerkship. Students will attend tutorials, ward rounds, seminars, conferences, etc., at the Allan Memorial Institute, Montreal General Hospital and Queen Mary Veterans Hospital.

Professors Cameron, Moll, Dancey and Staffs

DEPARTMENT OF RADIOLOGY

Professor CARLETON B. PEIRCE, *Chairman*

Associate Professors J. J. L. BOUCHARD
D. L. McRAE
D. J. SIENIEWICZ

Assistant Professors E. F. CRUTCHLOW
J. S. DUNBAR
R. G. FRASER

*Assistant Professor
of Physics* L. G. STEPHENS-NEWSHAM

Lecturers N. M. BROWN
R. M. CUNNINGHAM
B. B. HALE
M. N. LOUGHEED

MEDICINE

Demonstrators

D. BERGER
F. A. GRAINGER
J. J. HAZEL
F. R. MACDONALD
T. F. B. PHILIPS

FIRST YEAR

In co-operation with the Department of Anatomy, illustrative demonstrations for the course in "Living Anatomy" are available on the roentgenologic anatomy of the skeletal, respiratory, gastro-intestinal, and urogenital systems, especially in regard to functional anatomy of joints, the thoracic viscera, and the alimentary tract.

Professor Peirce and Staff

SECOND YEAR

INTRODUCTION TO RADIOLOGY

A course of twelve lectures is designed to (a) familiarize the medical student with the principles of radiation physics and radiation biology; (b) introduce the student to the basic principles of diagnosis and therapy by means of ionizing radiations; and (c) demonstrate the uses and limitations of radiological methods of examination and treatment in medicine. The physical characteristics of ionizing radiations (x-rays, alpha, beta and gamma radiations of the natural and manufactured radioactive isotopes) and their biological effects on tissues are discussed and demonstrated. This is followed by consideration and demonstration of the application of these features to the investigation of the structure and function of the various organic systems and supporting structures of the body in medical examination and diagnosis. Similarly these features are considered as agents in the treatment of neoplasia and other functional abnormalities in disease. Illustrative material is used extensively.

Professor McRae

During his study of physical diagnostic methods the student's introduction to the uses of radiologic methods will be amplified by observation of fluoroscopic examinations of the cardio-respiratory and gastro-intestinal tracts and through demonstrations of other roentgenologic studies.

Professors Peirce and Sieniewicz and Staff

THIRD YEAR

(a) Clinical applications of the diagnostic and therapeutic uses of ionizing radiations are discussed and demonstrated to the several clinical groups of students attending both Medicine and Surgery for periods of at least one and one-half hours per week in each of the major teaching hospitals.

The case material is so arranged that during the four such eight-week periods in the Third and Fourth years a wide field of systemic or organic diseases is covered in regard to diagnosis and the general principles of

COURSES IN RADIOLOGY

therapeutic application demonstrated, including some acquaintance with the uses of radioactive isotopes, both diagnostically and therapeutically.

Professors Peirce, Bouchard and Sieniewicz and Staff

(b) *Elective:* Third year students who choose Radiology as their elective field are assigned a tutor under whose guidance they are able to devote as much of their time and energy as possible to the study of radiologic investigation or treatment of disease. Each is required to select some special topic for investigation and the preparation of an essay on the subject which he presents formally before the staff of the Department in the respective hospital.

Professors Peirce and Sieniewicz and Staff

FOURTH YEAR

Clinical applications of the diagnostic and therapeutic uses of ionizing radiations are continued as in the Third year in weekly periods of at least 1½ hours each while attending Medicine and Surgery in the general teaching hospitals, and in addition each group attending Paediatrics has at least an hour per week on radiologic manifestations of disease in infancy and childhood.

*Professors Peirce, Bouchard and Sieniewicz,
Assistant Professor Dunbar and Staff*

Text and Reference Books: A. E. Barclay, *The Digestive Tract*, 2nd ed. (Camb. Univ. Pr. 1936); J. P. Caffey, *Pediatric X-ray Diagnosis*, 3rd ed. (Year Bk. Pubs. 1956); Otto Glasser, et al., *Physical Foundations of Radiology*, 2nd ed. (Harper 1952); Ross Golden, et al., *Diagnostic Roentgenology*, 3 vols. (Nelson 1936-41); F. J. Hodges, et al., *Radiology for Medical Students*, 3rd ed. (Year Bk. Pubs. 1958); G. W. Holmes, and L. L. Robbins, *Roentgen Interpretation*, 8th ed. (Lea and Febiger 1955); Alban Kohler, *Roentgenology*, 2nd ed. (Bailliere 1935); Isadore Meschan, *An Atlas of Normal Radiographic Anatomy*, 2nd ed. (Saunders 1959); Isadore Meschan, *Roentgen Signs in Clinical Diagnosis* (Saunders 1956); E. P. Pendergrass, J. P. Schaeffer and P. J. Hodes, *Head and Neck in Roentgen Diagnosis*, 2nd ed. 2 vols. (Thomas 1956); E. A. Pohle, *Theoretical Principles of Roentgen Therapy* (Lea and Febiger 1938); LeRoy Sante, *Principles of Roentgenological Interpretation*, 11th ed. (St. Louis Bk. Distrib. Co. 1958); S. C. Shanks and P. J. Kerley, *Textbook of X-ray Diagnosis*, 3rd ed. 4 vols. (Saunders 1957-60); M. B. Wesson, *Urologic Roentgenology*, 3rd ed. (Lea and Febiger 1950); W. H. Beierwaltes, P. C. Johnson and A. J. Solari, *Clinical Use of Radioisotopes* (Saunders, 1957); Joseph Selman, *The Fundamentals of X-Ray and Radium Physics*, 2nd ed. (Thomas 1958); Friedrich Ellinger, *Medical Radiation Biology*, (Thomas 1957).

MEDICINE

POSTGRADUATE INSTRUCTION

DIPLOMA IN RADIOLOGY

Details of the Postgraduate course leading to the Diploma in Radiology of the Faculty of Medicine may be obtained from the Dean's Office or the Chairman of the Department.

Postgraduate training prerequisite to certification in the specialty by the Royal College of Physicians and Surgeons (Canada) or the American Board of Radiology is available in the teaching hospitals in conjunction with the Diploma Course for selected graduates of approved Faculties or Schools of Medicine.

DEPARTMENT OF SURGERY

Professors

H. R. ROBERTSON, *Chairman*
D. R. WEBSTER

Associate Professors

F. N. GURD
G. R. MCCORRISTON
S. J. MARTIN
D. R. MURPHY

Assistant Professors

S. G. BAXTER	C. A. MCINTOSH
C. M. GARDNER	E. A. MACNAUGHTON
J. W. GERRIE	H. S. MORTON
G. A. HOLLAND	H. F. MOSELEY
J. C. LUKE	J. D. PALMER

Lecturers

H. A. BAXTER	J. C. SUTTON
W. M. COUPER	A. M. VINEBERG
J. C. DICKISON	F. M. WOOLHOUSE

Demonstrators

F. D. ACKMAN	R. N. LAWSON
A. R. BAZIN	R. C. LONG
H. E. BEARDMORE	H. F. OWEN
J. A. DRUMMOND	D. W. RUDDICK
M. A. ENTIN	H. J. SCOTT
R. L. ESTRADA	ISRAEL SHRAGOVITCH
J. F. HOPKIRK	J. L. SHUGAR
A. F. JONES	E. J. TABAH
G. M. KARN	A. G. THOMPSON

COURSES IN SURGERY

ORTHOPAEDIC SURGERY

<i>Assistant Professors</i>	J. G. PETRIE J. G. SHANNON
<i>Lecturers</i>	A. A. BUTLER J. A. L. WALKER
<i>Demonstrators</i>	J. M. MCINTYRE ROBERT G. TOWNSEND C. LAIRD WILSON

UROLOGY

<i>Assistant Professor</i>	R. G. REID
<i>Lecturers</i>	S. A. MACDONALD J. T. MACLEAN
<i>Demonstrators</i>	K. J. MACKINNON C. A. MOORE

REQUIRED COURSES

SECOND YEAR

Surgical teaching begins in the Spring term (12 weeks) of the Second year. In this year special attention is directed to the instruction and training of the student in proper methods of physical examination from the surgical point of view.

- 2A. A COURSE OF LECTURES (12) is given covering the basic principles of Surgery.
- 2B. GROUP CLASSES in the wards of the Montreal General and Royal Victoria and Queen Mary Veterans Hospitals. At these, small groups of students are instructed in methods of examination as applied to surgery and its allied specialties.

THIRD YEAR

The student comes into a more intimate contact with the patients, and in the surgical term of eight weeks is assigned cases, writes case reports, acts as dresser, and assists at operations. His clinical work is confined to one hospital—either the Montreal General Hospital or the Royal Victoria Hospital.

- 3A. LECTURES IN SURGERY in the Montreal General and Royal Victoria Hospitals, one day a week throughout the year.
- 3B. GROUP WARD CLASSES in the Montreal General and the Royal Victoria Hospitals, five times a week during the term.
- 3C. CASE REPORTING. Patients are allotted to students who act as reporters, dressers, and assistants at operations.

MEDICINE

FOURTH YEAR

In the Final year the student spends eight weeks attached to the surgical service of a hospital. Students taking their surgical instruction at the Montreal General Hospital are required to live in for a period of four weeks during their term in general surgery. Those taking instruction at the Royal Victoria Hospital are required to live in for two weeks (one week while in anaesthesia and one week urology).

SURGICAL DISEASES OF CHILDREN

Some instruction in the surgical diseases of children is given during the trimester in which the students are assigned to paediatrics at the Montreal Children's Hospital as follows:

4A. GROUP WARD CLASSES three times a week throughout the trimester.

In their Final year students attend either the Shriners Hospital or the Montreal Children's Hospital for further instruction in paediatric surgery.

ORTHOPAEDIC SURGERY

Some lectures covering the basic principles of orthopaedic surgery are given in the Second and Third years and members of the Orthopaedic Staffs of the Montreal General Hospital and Royal Victoria Hospital participate in the Second and Third year bedside clinics.

In the Final year seminars are conducted by members of the Orthopaedic Staff.

UROLOGY

In the Final year students are assigned to the Urological Services of the Montreal General Hospital and Royal Victoria Hospital for one week and, in addition to this, ward classes are held three times a week in each hospital.

Textbooks:

General Surgery: Ian Aird, Companion in Surgical Studies, 2nd ed. (Livingstone 1956); Hamilton Bailey, Demonstration of Physical Signs in Clinical Surgery, 12th ed. (Williams and Wilkins 1954); Christopher's Minor Surgery, ed. by Alton Ochsner and M. E. DeBaakey, 8th ed. (Saunders 1959); Frederick Christopher, Textbook of Surgery, 7th ed. (Saunders 1960); W. H. Cole and Robt. Elman, Textbook of Surgery, 7th ed. (Appleton 1959); H. F. Moseley, Textbook of Surgery, 3rd ed. (Mosby 1959).

GRADUATE INSTRUCTION

Surgical Anatomy: A. Lee McGregor, Synopsis of Surgical Anatomy, 8th ed. (Williams and Wilkins 1957).

Fractions and Dislocations: R. Watson Jones, Fractures and Joint Injuries, 4th ed., 2 vols. (Livingstone 1952-1955).

Urology: M. F. Campbell, Urology, 3 vols. (Saunders 1954); F. H. Colby, Essential Urology, 3rd ed. (Williams and Wilkins 1956); D. N. Eisendrath and H. C. Rolnick, Urology, 4th ed. (Lippincott 1938); R. Nesbit, Fundamentals of Urology, 4th ed. (Reed Miller Co. 1953).

Orthopaedic Surgery: W. C. Campbell, Operative Orthopaedics, 3rd ed., 2 vols. (Mosby 1956); Walter Mercer, Orthopaedic Surgery, 5th ed. (Arnold 1959).

GRADUATE INSTRUCTION

1. Any medical graduate of McGill University who so desires may attend any of the regular undergraduate clinics. This opportunity frequently appeals to many of our graduates, who find in this plan a means of bringing their knowledge of medicine up to date.

2. Special graduate work is offered in every department, both in the laboratories and in the clinics. Applications in writing, addressed to the chairman of the department concerned, must state the qualifications and experience of the applicant and the nature of the work he desires to do. The minimum fee is \$30.00 a term (10 weeks).

A Diploma in Tropical Medicine and Hygiene is granted by McGill University.

This course is conducted by the Department of Health and Social Medicine, with the collaboration of other departments in the Faculty of Medicine and the assistance of members of other faculties in the University who have a special interest in this field.

The Department of Health and Social Medicine is housed in quarters at 515 Pine Avenue West, within easy access of the Medical Building. The building contains ample accommodation for lectures, seminars, and demonstrations. In addition to the excellent facilities of the Library of the Faculty of Medicine, which are at the disposal of students, the Department has its own library and reading-room. The building is also the headquarters of the Student Health Service.

DIPLOMA IN TROPICAL MEDICINE AND HYGIENE (D.T.M. & H.)

The course of instruction occupies a full academic year. Classes for the first term include bacteriology and immunology, epidemiology, environmental hygiene, industrial hygiene, and public health organization and

MEDICINE

administration, vital statistics, biometrics, maternal, infant, pre-school and school hygienes, etc. Those for the second term are held at the Institute of Parasitology at Macdonald College of McGill University. The teaching collection at the Institute is a large and representative one.

The work is practical as well as theoretical, and includes a study of Parasitology and Medical Entomology, laboratory diagnoses of tropical and sub-tropical diseases, and lectures on the diseases of the tropics, on tropical hygiene, and minor sanitation.

Clinical instruction must, of necessity, be limited in temperate climates. This aspect is, therefore, deferred to the final part of the course which is given in the tropics at the conclusion of the didactic instruction. The course consists of clinical and field work for which arrangements have been made with Georgetown, British Guiana, Port of Spain, Trinidad, and Venezuela.

Candidates for the Diploma in Tropical Medicine and Hygiene must be graduates in medicine of a recognized university. Certain additional courses may be required of those who are not recent graduates or of those who have not had sufficient clinical practice.

The Fee for the Diploma in Tropical Medicine and Hygiene is \$250, or \$100 if preceded by a D.P.H. course or its equivalent.

Application must be made prior to June 1st.

BUILDINGS —

THE MEDICAL BUILDING

This building contains the Offices of Administration, the Medical Library (with its 90,000 volumes, its Reading Rooms, and their complete set of technical journals), the Department of Anatomy, and the Museum of Anatomy. The Faculty of Dentistry is also in this Building.

The Department of Anatomy, with its commodious laboratories, its dissecting room, with 50 tables, and its very unusual abundance of material, affords unequalled facilities for students. Moreover, graduates who desire opportunities for research are adequately cared for in this Department. The laboratories for Histology and Embryology have excellent facilities with space for 120 students, and smaller rooms for research.

THE BIOLOGICAL BUILDING

Completed in 1922, this building was erected on the site of the original Medical Building, which was partly destroyed by fire in 1907. The

extensive structure—184 feet by 60 feet—houses on each of its floors laboratories devoted respectively to Botany, Zoology, Genetics, Biochemistry, Physiology, and Pharmacology.

Each of these departments is provided with laboratories and units for undergraduate teaching and graduate research.

THE PATHOLOGICAL INSTITUTE

This building, which was opened for use in October, 1924, and which is connected with the Royal Victoria Hospital and the Montreal Neurological Institute by tunnels, is situated on the northeast corner of University Street and Pine Avenue, adjacent to the Medical Building. It provides accommodation for the departments of Pathology and Bacteriology and includes a Pathological Museum and museum workshops. It combines under one roof quarters for teaching and research in these departments, and it provides ample facilities and equipment for instruction of students, and the research work of the Staff.

THE MONTREAL NEUROLOGICAL INSTITUTE

This eight-storey building, which is situated on University ground adjacent to the Pathological Institute and the Royal Victoria Hospital, was opened in 1934. Unsurpassed in its equipment and facilities for research, as well as the medical and surgical treatment of disorders of the nervous system, it houses the University Department of Neurology and Neurosurgery, which conducts both undergraduate and graduate teaching in the Faculty of Medicine. In addition to wards, operating rooms, and laboratories for treatment and study of diseases of the nervous system, the building provides facilities for graduate study and research in the related fields of basic science.

THE ALLAN MEMORIAL INSTITUTE

In 1943 a large building and site were donated as a basis for the development of an Institute of Psychiatry. The building was reconstructed to permit of the establishment of a fifty bed unit, together with extensive research laboratories, and was officially opened July 12th. 1944. Since that time, both undergraduate and postgraduate teaching have been carried on.

THE DONNER BUILDING

The Donner Building for Medical Research, adjacent to the Medical Building, was completed in September 1948. Its erection was made possible through the generosity of William H. Donner of Philadelphia, the late founder of the International Cancer Research Foundation, who provided the funds necessary for the construction of a building entirely devoted to medical research.

MEDICINE

This building houses the Maxwell Lauterman Laboratories for Experimental Surgery and laboratories for Dentistry and Experimental Psychology.

HOSPITALS

Few medical schools on this continent offer better facilities than those enjoyed by the students of McGill University. Ideal academic and topographical conditions exist for the teaching of scientific and practical medicine.

The Medical Faculty is on the University Campus, and is thus in juxtaposition to the scientific laboratories of the University and to the largest teaching hospital in the city. Co-operation with the scientific and cultural departments of the University, as well as with clinical facilities, is thereby made easy.

The following hospitals and institutions are at the disposal of the teaching staff and students for clinical and pathological study:

Royal Victoria Hospital
Montreal General Hospital
Montreal Children's Hospital
Alexandra Hospital for Infectious Diseases
Verdun Protestant Hospital
Royal Edward Laurentian Hospital
Royal Victoria Montreal Maternity Hospital

The staffs of these institutions are appointed with the co-operation of McGill University and, for the most part, are teachers in the Medical Faculty. These affiliated hospitals contain over 3,000 beds.

The Royal Victoria Hospital, in juxtaposition to the University buildings, comprises the following units under one administration:

1. The Royal Victoria Hospital proper, or the Main Building;
2. The Ross Memorial Pavilion for private patients;
3. The Women's Pavilion—Royal Victoria Montreal Maternity;
4. The Allan Memorial Institute.

The total bed complement is 919, with 96 bassinets. Admissions total approximately 20,000 and confinements are in excess of 3,000 a year. There are some 80,000 visits annually to the Out-Patient Department. The University Clinic was established in 1924 and has facilities for both clinical laboratory work and research.

Post-mortems total 55 per cent of the deaths.

The number of resident physicians is 106.

The Royal Victoria - Montreal Maternity Pavilion, with 214 beds for obstetrical and gynaecological cases. In this institution there are 117 teaching beds and an organized out-patient service which is of the greatest benefit to the undergraduate student. In a typical year, the obstetrical service cared for over 3,000 confinements in the Hospital. In the gynaecological section, over 2,000 cases are admitted during the year.

There are ten resident physicians.

The Montreal General Hospital is a general hospital of 750 beds for the treatment of acute diseases. In a typical year, there were approximately 18,000 admissions, while out-patient consultations for the same period approximated 150,000. The resident and interne staff numbers 150.

The "Montreal General" was founded in 1821; two smaller buildings downtown had preceded it in 1816 and 1819. In actual age, therefore, it is not by any means the oldest hospital in Canada, but its record in clinical teaching is one of the longest on the North American continent.

As soon as the Hospital opened, its staff began to arrange for students and, in 1823, they opened the first Medical School in Canada, the Montreal Medical Institution, with 25 students. Their teaching was carried on partly at the Hospital.

It was this School which agreed to form the Medical Faculty of McGill University in 1828. The University at that time had practically no students of any kind, and as it was required by the terms of the McGill bequest that teaching should begin before 1829, on penalty of losing the estate, The Montreal Medical Institution, with its ready-made course came as a salvation. That was the beginning of the long and intimate association between the Hospital and the University.

The present building on Cedar Avenue was occupied in 1955.

The Montreal Children's Hospital has 291 public beds, and, in a typical year, admitted 6,000 patients. The attendance at its out-door department totalled over 60,000 visits. This hospital admits all classes of cases of disease in children except pulmonary tuberculosis and the communicable diseases, and enables students to get a broad concept of paediatrics.

There were 111 autopsies in a typical year, which represented 84.6% of all deaths.

The number of resident physicians is 40.

MEDICINE

The Alexandra Hospital for Infectious Diseases, opened in 1906, with modern wards, cubicles, and equipment, is regularly attended by students, who receive demonstrations on the essential features of the exanthemata.

There are three wards for the treatment of tuberculosis in children. There are 150 beds (including 50 for tuberculosis) and the average yearly admissions range between 1,500 and 2,000.

There is a resident senior physician and there are three junior physicians.

The Verdun Protestant Hospital has 1,100 beds.

The Royal Edward Laurentian Hospital (Montreal Division), 3674 St. Urbain Street, consists of a large anti-tuberculosis dispensary and a 151-bed hospital unit designed and equipped for thoracic surgery. Its objectives are the study, prevention, and cure of tuberculosis. This Hospital, along with its Laurentian Division (located in Ste. Agathe des Monts) offers students excellent opportunities to obtain instruction in all aspects of chronic pulmonary disease, more particularly pulmonary tuberculosis.

THE MEDICAL LIBRARY

Honorary Librarian

LLOYD G. STEVENSON

Medical Librarian

GRACE HAMLYN

The Library, now of nearly 90,000 bound volumes, originally occupied the central front section of the medical building but has expanded its stack area to the north side on the two lower floors.

The Reading Room with accommodation for seventy-five people is on the fourth floor with a small periodical room adjacent. The third floor contains the stacks for bound journals and has three study rooms for use of members of the teaching staff. The second floor is devoted to administration and technical operations.

The chief value of the Library is in its periodical collection. Over 1,500 journals are subscribed to currently and many are received by gift. Journal literature in almost all languages is well represented. The book collection is especially noteworthy in the ophthalmological section due in large measure to many gifts from the late Dr. Casey A. Wood.

The Library is for members of the teaching staff and students of the Faculty, and of the whole University, and for research workers and doctors in the city. An extensive interlibrary loan service throughout the country is maintained and books and journals are sent to doctors who are not near a library on payment of postage charges.

The Library is open during the academic session from Monday to Friday, 9 a.m. to 10 p.m.; Saturday 9 a.m. to 5 p.m. After June 15th the hours are 9 a.m. to 5 p.m. Monday to Friday, closed Saturday.

MEDICAL SOCIETIES

There are also small collections of books and journals located in several of the Departments of the Faculty.

THE OSLER LIBRARY

This special library of the history of medicine and science, collected by Sir William Osler with a view to its educational value, was bequeathed by him to his Alma Mater. The Osler Library, which comprises nearly 12,500 volumes, occupies a large room, beautifully equipped, on the fourth floor, convenient to the Medical Library. The collection is rich in early editions of the older literature, as well as in modern historical works, and its importance and usefulness are much enhanced by the donor's annotated catalogue. Planned and prepared by Osler along very unusual lines, the catalogue was completed, indexed, and printed after his death (*Bibliotheca Osleriana*, Clarendon Press, Oxford, 1929, xxxvi, 785 pp.).

The books are classified in eight sections, of which the first, the "*Bibliotheca Prima*," presents a bibliographical outline of the evolution of science (including medicine), and was planned to contain the essential literature arranged chronologically under the names of the greatest contributors to the advancement of knowledge. Another feature of the Library is its *Incunabula*, a valuable collection of 150 books printed in the fifteenth century. Recently the Wellcome Trust has given generous annual grants for the purchase of expensive books to fill gaps in the Osler collection.

The Osler Library is open daily, except Sunday, for the use of undergraduates and all who are interested. The Librarian will be glad to give advice or informal instruction to students. Accommodation is provided for readers. The books belonging to the original collection may not be borrowed or removed from the Library, but this restriction does not apply to the current works on the history and biography of medicine and science which are constantly being added.

MEDICAL SOCIETIES

McGILL UNDERGRADUATE MEDICAL SOCIETY

The Society is composed of the registered students of the faculty. Its purpose is:

- (1) To transact all matters of business connected with the undergraduate body;
- (2) To stimulate interest along medical lines;
- (3) To assist students to express themselves in public with facility;
- (4) To provide an enjoyable social evening, at the same time developing a strong spirit of faculty loyalty.

(5) To organize, during the course of the school year certain outside activities such as the annual Medical Banquet and Ball.

Monthly meetings are held at which addresses are given by prominent professional men, medical and otherwise. Case reports are also read and discussed by the members themselves.

The annual meeting is the last meeting in the spring, when the following officers are installed: Hon. President (elected from the Faculty), President, Vice-President, Secretary, Assistant Secretary, Treasurer, Reporter, and three Councillors (of whom two are chosen from the Faculty). These officers are elected by ballot one week before the annual meeting.

The society also maintains the Students' Reading Room. English and American journals, as well as the leading daily newspapers are kept on file.

ALPHA OMEGA ALPHA HONORARY MEDICAL SOCIETY

This Society, which has Chapters in the various Medical Colleges of Canada and the United States, established a subsidiary branch at McGill University in 1912.

There are honorary, graduate, and undergraduate members. Honorary members are selected from such teachers as are more particularly interested in the advancement of scientific medicine. Undergraduate members are selected from those students who, during their earlier academic career, have shown promise of development and have attained honour rank. **They are eligible for election in the Third and Fourth years.**

Meetings are held every month throughout the session, and papers are read by honorary and active members, as well as by graduates. Once during the year an open meeting is addressed by a visitor who is prominent in the medical world.

OSLER SOCIETY

The Osler Society was founded in the Spring of 1921 by a number of undergraduates in Medicine, its object being to perpetuate the memory and teachings of Sir William Osler by the reading of papers and discussion of topics reflecting his ideals of a liberal medical education. Thus those interested may supplement their clinical and scientific knowledge by the consideration of those topics of medicine which are of historical and literary significance.

The membership includes men from each class in the faculty. Several professors have shown an active interest in the Society and have added a more mature note to the discussion. Each year an Honorary President has been elected from this older group.

McGill University

Montreal



Faculty of Dentistry

1960-1961

PUBLICATIONS

The following official publications are issued by the University and may be obtained from the Registrar's Office.

Announcements of Faculties and Schools as follows:

General Announcement

School Certificate Examinations

Scholarships, Bursaries, and Loan Funds

Faculty of Arts and Science (Degrees in Liberal Arts and in Pure Science. There is a separate Announcement for the School of Commerce.)

Faculty of Medicine

Faculty of Medicine Postgraduate Courses

Faculty of Dentistry

Faculty of Engineering (Degrees in Engineering and in Architecture.)

Faculty of Law

Faculty of Music

Faculty of Divinity

Faculty of Graduate Studies and Research

School of Commerce

Library School

Institute of Education

School for Graduate Nurses

School of Physical and Occupational Therapy

School of Social Work

Macdonald College (Faculty of Agriculture and School of Household Science.)

French Summer School

Extension Courses

The Directory of Staff (University administrative officers, standing committees, and officers of instruction. Limited distribution.)

The Calendar (Available for distribution only to libraries and officials of certain institutions.)

Faculty of Dentistry

ADMINISTRATIVE OFFICERS

F. CYRIL JAMES, Chevalier de la Légion d'Honneur, B.Com., M.A., Ph.D.,
D.Sc., D. de l'U, D.C.L., LL.D., F.R.S.C. *Principal*

DAVID L. THOMSON, Ph.D., LL.D., F.C.I.C., F.R.S.C. *Vice-Principal*

JAMES McCUTCHEON, D.D.S., M.S.D., F.A.C.D. *Dean*

MERVYN A. ROGERS, D.D.S. *Associate Director of Clinical Facilities*

JOHN H. HOLTON, B.Com. *Secretary of the Board of Governors*

COLIN M. McDougall, D.S.O., B.A. *Registrar*

G. A. GRIMSON, B.Com. *Comptroller*

A complete list of the teaching staff of the University, including the Faculty of Dentistry, is printed as a separate Announcement, which may be obtained from the Registrar's Office.

REQUIREMENTS FOR ENTRANCE

The minimum requirement for admission to the dental course is the satisfactory completion of two full years of study in a recognized College or Faculty of Arts and Science (or the equivalent thereof), including courses in the following subjects: English and Mathematics, one year of each; Physics, one year with laboratory work; Biology, one year of General Biology or Zoology with laboratory work (half year of Botany and half year of Zoology will be accepted, but not one year of Botany alone); Chemistry, two full courses, including one full course of Organic Chemistry with laboratory work.

Courses meeting these requirements are offered in the Faculty of Arts and Science of McGill University, where a student may take the two years of study required, or the second of the two if he has satisfied the requirements of the first year by Senior Matriculation, or otherwise.

On the successful completion of the Second year of the Dental course, students who have entered this Faculty from the Third year of the Faculty of Arts and Science of McGill University are eligible to apply for their B.A. or B.Sc. degree. Application should be made, in writing, to the Dean of the Faculty of Arts and Science.

DENTISTRY

Eligible students are advised to include Biochemistry 31 as a part of their pre-dental program.

Particulars of the examinations leading to Junior and Senior Matriculation status are given in the School Certificate Examinations Announcement.

Applicants who have met the academic requirements are required to take an aptitude test upon their admission to the study of Dentistry.

Residents of the United States should take the "American Dental Association Aptitude Test" and have the results of the test sent to the Faculty of Dentistry.

Application for admission to the Faculty of Dentistry must be made upon the regular application form which may be obtained from the Secretary of the Faculty. As the number of students in each class is limited, application should be made early and in any case not later than *March first*. Each application must be accompanied by a non-returnable fee of \$5.00 in the form of a cheque or money order payable to McGill University.

A reservation fee of \$50.00 is payable by the applicant within ten days of the receipt of notice that he has been accepted for admission. This fee will be credited towards the applicant's University fees, but will not be returned if he fails to register at the opening of the session.

PROFESSIONAL PRACTICE

PROVINCIAL REGISTRATION

Applicants are reminded that a University degree in Dentistry does not in itself confer the right to practise the profession of Dentistry. It is necessary to comply with the dental laws of the country, state, or province in which it is proposed to begin practice. Each province in Canada at present has special requirements for its licence, and in all of them a certain standard of general education is demanded before the study of Dentistry may be undertaken. *Students who intend practising in Canada are advised to register their qualifications in the province in which they intend to practise, before they begin their university course.*

Province of Quebec

In the case of those who intend to practise in the Province of Quebec it is essential that the candidate should:

- (a) take at least the second of the above two years in a University recognized by McGill University, thus qualifying for eligibility to register with the College of Dental Surgeons of the Province of Quebec
- (b) obtain from the College of Dental Surgeons of the Province of Quebec a Qualifying Certificate before proceeding with the dental course.

PROFESSIONAL REGISTRATION

Further information may be obtained from the Registrar of the College of Dental Surgeons of the Province of Quebec, 2285 Papineau Avenue, Montreal, Quebec.

Candidates who have successfully completed the regular course as given in the Faculty of Dentistry, McGill University, may be granted the licence without further examinations upon payment of the required fee, provided they are registered with the College of Dental Surgeons of the Province of Quebec.

The following is a list of the Registrars of the Dental Boards of the several Canadian provinces. Students are advised to write for information whenever they are in doubt as to the regulations of any province.

Alberta—Dr. R. A. Rooney, 720 Tegler Bldg., Edmonton.

British Columbia—Dr. G. I. Creasy, 217 Medical-Dental Bldg., Vancouver.

Manitoba—Dr. J. Orwell Brown, 416 Medical Arts Bldg., Winnipeg.

New Brunswick—Dr. E. D. Halford, 459 DeMont Street, Lancaster.

Newfoundland—Dr. G. P. French, 350 Water Street, St. John's.

Nova Scotia—Dr. G. M. Dewis, 269 Gottingen Street, Halifax.

Ontario—Dr. Wesley G. Dunn, 230 St. George Street, Toronto.

Prince Edward Island—Dr. Heath McIntyre, 140 Richmond Street, Charlottetown.

Quebec—Dr. Robert Leblanc, 2285 Papineau Avenue, Montreal.

Saskatchewan—Dr. F. R. Smith, 606 Canada Bldg., Saskatoon.

NATIONAL DENTAL EXAMINING BOARD OF CANADA

The National Dental Examining Board of Canada issues a certificate to successful candidates which may be registered with the Canadian Provincial Licensing Boards for the purpose of securing a licence to practise. The Province of Quebec does not recognize the certificate issued by the National Dental Examining Board of Canada.

Candidates must possess the following qualifications:

(a) have proof of matriculation as established by the Council on Dental Education of the Canadian Dental Association before beginning the study of dentistry.

(b) have taken a minimum of two complete academic years, equivalent to two years liberal Arts and Science at a recognized university.

(c) have successfully completed four academic years of professional education in a dental school approved by the Council on Dental Education of the Canadian Dental Association.

DENTISTRY

(d) hold a degree in dentistry from a school of dentistry approved by the Council on Dental Education of the Canadian Dental Association at the time of graduation.

(e) hold an Enabling Certificate from a Canadian dental licensing body. Detailed information may be obtained from — Dr. H. N. B. Beach, Secretary, National Dental Examining Board of Canada, 150 Metcalfe Street, Ottawa, Ontario.

NATIONAL DENTAL EXAMINING BOARD OF THE U.S.

Students intending to practice in the United States are advised to contact the Secretary, Council of the National Board of Dental Examiners, American Dental Association, 222 East Superior Street, Chicago 11, Illinois. Information should also be obtained from the Secretary of the licensing board of the specific state in which the student intends to practise.

REGISTRATION

Students in Dentistry register at the Registrar's Office on Friday, September 2nd or Tuesday, September 6th. Any student registering after the specified date will be required to pay a late fee. No students will be admitted after September 20th.

FEES

The University reserves the right to make changes without notice in its published scale of fees if, in the opinion of the Board of Governors, circumstances so require. Fees are not refundable, except under special conditions as described in the General Information Pamphlet.

TUITION FEES

Annual undergraduate fee	\$600.00
(including Students' Society and Dental Review fees)	
By Instalments: Each of two instalments	302.50

REPEATING A YEAR

Students repeating a year pay	\$600.00
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EQUIPMENT AND SUPPLIES

In First year—Technic Model (rental)	\$10.00
In Second year—Crown and Bridge Model	30.00
In Second year—Operative Model (rental)	10.00
In Third year—Orthodontic material	20.00
In Third and Fourth years—Dental Cabinet (rental)	5.00
In Third year—Final practical examination material	20.00
In Fourth year—Final practical examination material	30.00

AD EUNDEM FEE

Transfer students entering any year above the First pay a special *ad eundem* fee of \$10.00

GENERAL REGULATIONS

Fees are due and payable at the Accounting Office between the hours of 9 a.m. and 4 p.m., on September 2nd or September 6th; but they may be paid before the above dates. If paying in two instalments, the amount of the first instalment can be determined by adding fees and instalment fee, deducting deposit and dividing the result in half. An additional \$2 is charged for payment after the specified dates. All late fees are payable in full with first instalment.

Students registering late pay their fees at the time of registration, failing which they become subject to the following provisions.

Immediately after the prescribed dates for the payment of fees, the Chief Accountant sends to the Dean of each Faculty a list of the registered students who have not paid their fees. The Deans thereupon suspend them from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Chief Accountant.

Note: Special fees are given in the General Information Pamphlet included in the Announcement.

INSTRUMENTS

With the exception of certain instruments and equipment required for the general use of all students, each student is required to furnish his own instruments and appliances for both laboratory and operating room, and is not permitted to enter the course until he is thus supplied.

The approximate cost of instruments and supplies is as follows:

First year.....	\$500.00
Second year.....	600.00
Third year.....	300.00
Fourth year.....	150.00

All of these instruments and this equipment will be required for office use when the student enters practice and should be regarded as an investment for that purpose rather than a university expense.

Arrangements have been made with local dental supply houses in order that the student may benefit by a special discount.

MEDALS AND PRIZES

Montreal Dental Club Gold Medal.—Awarded to the student in the final year who stands first in the science and practice of Dentistry. The standing is determined not only by the written and practical examinations at the end of the year, but by the general work of the student during the four years.

College of Dental Surgeons of the Province of Quebec.—The J. K. Carver Prize of twenty-five dollars awarded to the student, registered in this Province, obtaining the highest standing in the practical examinations of the final year.

Montreal Endodontia Society.—A book prize, awarded to the student in the final year showing the greatest aptitude in this subject.

American Academy of Dental Medicine (Montreal Section) Book Prize.—Awarded to the student in the final year obtaining the highest standing in Dental Medicine.

Canadian Dental Association War Memorial Scholarship Award.—First Prize \$125.00; Second Prize \$75.00. To be awarded annually.

This is an essay contest and is open to all undergraduates of the final year who have been in attendance for at least two years at any Canadian Dental School. The essay shall consist of not more than 4,000 words and not less than 2,500 words, excluding bibliography.

Correspondence relative to this Scholarship should be addressed to The Secretary, Canadian Dental Association, 234 St. George St., Toronto 5.

Canadian Society of Dentistry for Children Prize—A prize awarded to the student in the final year obtaining the highest standing in didactic and clinical phases of Pedodontics.

Lieutenant-Governor's Gold Medal.—Awarded to the student in the final year who stands second in the class and whose standing is determined in a manner similar to that followed in the awarding of the Montreal Dental Club Gold Medal.

Lieutenant-Governor's Silver Medal.—Awarded to the student obtaining the highest marks in written and practical subjects in the Third year examinations.

An Anonymous Prize.—A prize awarded to the student in the Third year obtaining the highest standing in the final sessional examinations.

M. J. T. Dohan Pedodontic Prizes.—A prize awarded to the student in the Fourth year who achieves the highest standing in practical and

SCHOLARSHIPS, BURSARIES, AND LOANS

clinical work during the year; and a prize awarded to the student in Third year who receives the highest mark in the final written examination.

Hadler Study Club Prize.—A prize awarded to the student in the Third year who obtains the highest standing in Clinical Operative Dentistry.

International College of Dentists (Canadian Section) Scholarship.—This scholarship of \$100 is awarded annually to a student who has completed the Third year and is entering the Fourth year. The award is based on scholastic record in the Third year, general character, and participation in extra-curricular activities. No application is required.

Montreal Dental Club Prizes.—First, Second and Third year prizes given by the Montreal Dental Club and awarded to the students obtaining the highest standing in the following technique subjects: First year, Dental Anatomy; Second year, to be chosen each year; Third year, Orthodontic Technique.

Solomon Prize.—A prize, in memory of the late Dr. Arthur S. Solomon, awarded to the student who obtains the highest standing in the final examinations in the Second year. This prize is made possible by a donation of the Mount Royal Dental Society and the Alpha Omega Fraternity.

Dorion Prizes.—Second and Third year prizes offered by Dr. Eugene S. Dorion to the students obtaining the highest standing for an Essay on Roentgenology.

Dr. I. K. Lowry Prizes.—Prizes of medical dictionaries are awarded to the two students in the Second year who obtain the highest marks in Oral Histology and Embryology.

Mount Royal Dental Society Prize.—A prize awarded to the student obtaining the highest standing in the final examinations in First year.

SCHOLARSHIPS, BURSARIES, AND LOANS

Details of University and other scholarships and bursaries are given in the Scholarships Announcement which may be obtained from the Registrar's Office.

The University has a small fund from which loans may be made to students of good academic standing. Loans are made only to students in the upper years. Applications for loans should, in the first place, be made to the Dean.

The College of Dental Surgeons of the Province of Quebec has created a loan fund to assist students of the Faculty who are registered with this College.

DENTISTRY

COURSE FOR THE DEGREE OF D.D.S.

Candidates for the degree of D.D.S. must complete two years of study in a College or Faculty of Arts or Science, with English, Mathematics, Physics, Inorganic and Organic Chemistry, and Biology as compulsory subjects, before entering upon the four-year course in this Faculty. The curriculum* is as follows:

FIRST YEAR

Anatomy, Human
Anatomy, Dental
Histology, General
Physiology

Biochemistry
Dental Techniques
Orientation in Dentistry
Dental Materials

SECOND YEAR

Crown and Bridge Technique
Operative Technique
Orthodontic Technique
Prosthetic Technique
Bacteriology
Metallurgy

Pharmacology (general)
General Pathology
Dental History
Radiography
Histology, Dental
Anatomy, Human

THIRD YEAR

Crown and Bridge Prosthesis
Operative Dentistry
Orthodontics
Denture Prosthesis
Dental Radiography
Dental Pharmacology and
Therapeutics

General Anaesthesia
Oral Surgery and Local Anaesthesia
Oral Pathology
Health and Social Medicine
Pedodontics
Dental Jurisprudence
Periodontia

FOURTH YEAR

Orthodontics
Denture Prosthesis
Oral Surgery
Crown and Bridge Prosthesis
Pedodontics
Endodontia
Oral Diagnosis

Medicine
Periodontia and Oral Hygiene
Practice Management
Dental Ethics
Thesis
Operative Dentistry

*It should be understood that the programme and regulations regarding courses of study and examinations contained in this Announcement hold good for this session only, and that the Faculty, while fully sensible of its obligations towards the students, does not hold itself bound to adhere absolutely, for the whole four years of a student's course, to the conditions here laid down.

EXAMINATIONS

THESIS: Final year students must write a thesis of approximately 4,000 words. The subject will be announced early in September.

ATTENDANCE

Students who have failed to attend at least seven-eighths of the lectures, laboratory or clinical periods in any course may be refused the right to attempt the final examination in that course.

EXAMINATIONS

Frequent oral examinations are held to test the progress of the student, and occasional written examinations are given throughout the session.

A minimum of 60 per cent in each subject is required to pass, and 85 per cent for Honours.

All examinations in each year must be passed before a student is allowed to advance to the next.

Candidates who fail at the regular examinations in not more than three subjects of the First, Second, or Third years, may, at the discretion of the Faculty, be allowed to take the supplementary examinations before the beginning of the following session. These examinations are held during the week preceding the regular opening of the session.

A candidate will not be permitted to attempt supplemental examinations in more than three subjects in any of the first three years of the course.

Students in the Second year who fail to achieve a passing grade in Gross Anatomy *must* attend the Anatomy summer session in the month of August before attempting the supplemental examination in this subject. A fee will be charged for the course.

Students who fail in one subject only of the final year may, at the discretion of the Faculty, be allowed a supplementary examination in that subject.

A student who fails in a subject, in any year, in which practical or clinical work is required, must furnish evidence of additional supervised clinical attendance or laboratory work before presenting himself for examination.

Applications for supplemental examinations must be in the hands of the Dean at least three days before the date set for the beginning of the examination, and must be accompanied by a fee of \$10.00 for each subject.

QUALIFICATIONS FOR THE DEGREE

1. No one is admitted to the degree of Doctor of Dental Surgery who has not attended lectures for a period of four sessions in the Dental Faculty

of this University, or partly in this University and partly in some other approved Faculty or School of Dentistry.

2. Students, of other universities so approved, who may be admitted on production of certificates to a like standing in this University, are required to pass a qualifying entrance examination and thereafter the same examinations as regular students of this University.

3. No one is permitted to become a candidate for the degree who has not attended at least one full session at this University.

4. Candidates for the final examinations must furnish testimonials of attendance in the branches of dental education mentioned on page 1910; however, testimonials equivalent to though not precisely the same as these, may be presented and accepted.

DENTAL INTERNESHIPS

The Faculty of Dentistry, through the McGill-Hospitals Interneship Committee, offers five rotating dental interneships in Montreal hospitals beginning June 15th each year. Further details may be obtained by writing the Dean of the Faculty.

STUDENT INTERNESHIPS

See Pathology and Diagnosis (Oral).

COURSES OF LECTURES

ANAESTHESIA, GENERAL

Lecturer

ROBERT FERGUSON

This course, given in the Third year, comprises a short series of lectures on the general principles and the physiology of anaesthesia, with special emphasis laid on the factors of safety and the suitability of the anaesthetic agent employed. An equal amount of time is spent in the main operating theatre where demonstrations are given of the use of all modern methods of general anaesthesia for dental and oral surgery under actual working conditions. Instruction in methods of emergency resuscitation is included in this course.

Textbooks: A. E. Guedel, *Inhalation Anaesthesia* (Macmillan); W. H. Archer, *A Manual of Dental Anaesthesia* (Saunders).

ANATOMY, GENERAL

<i>Professors</i>	C. P. LEBLOND, <i>Chairman</i>
	J. LANGMAN
	C. P. MARTIN
<i>Associate Professor</i>	S. M. BANFILL
<i>Assistant Professor</i>	Y. CLERMONT
<i>Lecturers</i>	L. HELLER
	E. P. MILLAR
	I. SMART
	E. W. WORKMAN
<i>Lecturer in Dental Histology</i>	G. DOUGLAS ARMSTRONG
<i>Demonstrators, Histology</i>	E. KALLENBACH
	H. ROOT
<i>Teaching Fellow</i>	J. K. SANGHI
<i>Research Associate</i>	H. ISLER

ANATOMY

1A. GROSS ANATOMY

This course is taught during the First and Second years of the dental course.

In the First year the dental student spends two terms making a general survey of the body by means of lectures, dissection and demonstrations. This course runs concurrently with the course in First year Medicine.

During the first term of the Second year the dental student concentrates his attention on the head and neck. This course also runs concurrently with the course in Anatomy taken by the medical students but special lectures and demonstrations are given to emphasize points of special interest to dentists.

Practical Manual: J. T. Aitken et al., *A Manual of Human Anatomy*, Vol. 1 and 2 (Livingstone 1956).

Textbook: Gray, *Anatomy* (English edition); or Cunningham, *Textbook of Anatomy*.

MICROSCOPIC ANATOMY

1. HISTOLOGY AND EMBRYOLOGY

This course coincides for the main part with the Medical Microscopic Anatomy Course 5 but the reproductive organs are excluded and special lectures on dental histology are included. The course finishes at the end of the Winter term.

Histology Textbook: Bailey, *Text-book of Histology*; or Maximow and Bloom, *Histology*; or Ham, *Histology*.

ANATOMY, DENTAL

Assistant Professor
Lecturer
Demonstrator

T. I. GUILBOARD, *Chairman*
DAVID T. SHIZGAL
H. R. LOUITTIT

This course is given to dental students of the First year. It consists of 28 lectures of one hour and 56 laboratory periods of two hours each.

The lecture course covers:

1. Introductory lectures on the development of the maxillary bones, development of teeth, nomenclature of the different constituents of teeth and surrounding tissues.

2. The anatomy of each individual tooth, deciduous and permanent.

3. Arrangement of teeth and occlusion.

4. Development of the maxillary apparatus from reptiles to man.

These lectures are illustrated by drawings, X rays, models, slides, and specimens.

The laboratory course consists of carving teeth from plaster of Paris blocks. Four teeth are carved three times normal size.

Fourteen teeth are carved normal size, then articulated on models. Natural teeth are sectioned and mounted to familiarize the student with the composition of the teeth, and the relationship of pulp canals and chambers. Drawings of teeth are made.

References: Dental Anatomy, Zeisz & Nuckolls; Dental Anatomy and Physiology, Wheeler.

BACTERIOLOGY

Professor
Associate Professors

Assistant Professors

Lecturers

Teaching Fellow

R. W. REED, *Chairman*
G. G. KALZ
J. W. STEVENSON
FRITZ BLANK
C. A. BUTAS
A. M. MASSON
B. H. MATHESON
S. I. VAS
S. JUHASZ
L. KAPICA
H. D. KING
E. MANKIEWICZ
O. MORGANTE
S. NOMMIK
F. H. PRISSICK
RAISSA SILOV
E. L. MEDZON

ENDODONTICS

All lectures and laboratory courses are given in the Department of Bacteriology (Institute of Pathology).

ELEMENTARY DENTAL BACTERIOLOGY AND IMMUNITY

30 lectures and 60 hours practical work.—Available to students of Dentistry on the completion of their studies in Anatomy, Physiology, Histology, and Biological Chemistry.

A choice of the following books is recommended:

F. C. Kelly and K. E. Hite, *Microbiology* (Appleton Century Crofts); Jordan and Burrows, *Textbook of Bacteriology* (Saunders); Fairbrother, *A Textbook of Medical Bacteriology* (William Heinemann); *Review of Medical Microbiology*, Jawetz, Melnick & Adelberg (Lange Medical Publication 3rd Ed.).

BIOCHEMISTRY

Professors

K. A. C. ELLIOTT, *Chairman*

D. L. THOMSON

J. H. QUASTEL

Associate Professors

O. F. DENSTEDT

M. SAFFRAN

Assistant Professors

E. H. CREASER

E. A. HOSEIN

R. RUBINSTEIN

P. G. SCHOLEFIELD

The course consists of two to four lectures and one laboratory period, per week, from October to May.

Professor Hosein

The purpose of this course is to give the student an elementary knowledge of the general subject of Biochemistry with a more special knowledge of such aspects as bear particularly on the science and practice of Dentistry.

Textbook: Textbook of Biochemistry for Students of Dentistry, Joseph C. Muhler (C. V. Mosby).

DIAGNOSIS, ORAL (*See—Pathology*)

ENDODONTICS

Associate Professors

WILFRED J. JOHNSTON, *Chairman*

A. GERALD RACEY

WALLACE F. WALFORD

Assistant Professors

Lecturer in Medicine

Lecturer in Radiology

Lecturers in Dentistry

T. IVAN GUILBOARD
ROGER E. McMAHON
GERALD W. HALPENNY
E. S. DORION
A. D. RICHARDSON
L. J. ROSEN
CAMERON T. WALSH
(chosen each year)

Guest Lecturer

A course in root canal therapy correlated with the teachings of the Departments of Bacteriology, Pathology, Histology, and Dental Anatomy.

Two weeks in the senior year are devoted to a concentrated course of Theory and Clinical Practice of Endodontics. The basic principles of opening, cleansing, and filling root canals are dealt with in lectures and demonstrations. During this period each student is required to carry out the diagnosis, bacteriological examination, and treatment of the clinical cases that are provided. Where necessary, root resections and bleachings are performed. Throughout the senior year there is a weekly endodontic clinic to aid the students with those cases that they encounter during their general clinical work.

Textbooks: L. I. Grossman, Root Canal Therapy; Sommer, Ostrander and Crowley, Clinical Endodontics.

ETHICS, DENTAL

Lecturer

JOHNSTON W. ABRAHAM

Under this heading the moral, social and business relationships between the dentist and his patient will be discussed, as well as his duty to the public, his fellow practitioner, and himself.

FRESHMAN TECHNICS

Assistant Professor

Lecturer

Demonstrator

D. W. HENRY, *Chairman*

MARCEL HEBERT

L. E. KENT

An introduction to the techniques and practices which are common to the phases of Prosthetic and Operative Dentistry and Crown and Bridge Prosthesis. As a technical introduction to clinical phases of Dentistry the course will deal with the elements of cavity preparation and fillings; casting; soldering; prosthetic articulation; the use of investments and other dental materials.

Lectures, demonstrations and practical laboratory exercises are assigned to the course.

HEALTH AND SOCIAL MEDICINE

Associate Professors

C. W. MACMILLAN

MARGARET E. NIX

Assistant Professor

MARIAN A. BAIN

A special course of twenty lectures on the relation of Dentistry to Public Health and Preventive Medicine, including an introduction to the organization and administration of public health programs in Canada, communicable disease control, environmental hygiene, nutrition and health education.

HISTOLOGY AND EMBRYOLOGY, ORAL

Lecturer

G. DOUGLAS ARMSTRONG

Demonstrator

JOHN D. FENWICK

This course follows Histology 1. The didactic portion traces the development of the teeth and supporting structures. Following this, there is the study of the adult oral tissues throughout their life cycle, and their relationship to the various fields in Dentistry.

The laboratory portion of the course is devoted to microscopic study of prepared ground and decalcified sections of oral tissues. Demonstrations of dissections of embryonic and foetal material are made.

Text: Orban, *Oral Histology and Embryology*.

Reference Book: Noyes, Schour, and Noyes, *Dental Histology and Embryology*.

HISTORY, DENTAL

Associate Professor

JAMES MCCUTCHEON

This course is intended to give the student an intelligent concept of the evolution and development of dentistry from the primitive conditions and methods of the past to the present standing of the profession as a branch of the healing art. The contribution of some of the outstanding men in the profession to this development will also be considered.

JURISPRUDENCE, DENTAL

Lecturer

ALEX. MCT. STALKER

A discussion of the laws governing the practice of dentistry, their necessity, and their purpose.

The responsibility of the dentist under the laws of the Province and his position as defendant in suits for damages and as plaintiff in suits for fees are fully explained.

MATERIALS, DENTAL

Assistant Professor

DONALD W. HENRY

This course is given to First year students and is designed to be an introduction to the materials used in Dentistry. A short series of lecture-demonstration periods is given. Laboratory periods in co-operation with the technique courses of First year combine the study of chemical and physical properties of the materials with the techniques for handling them.

Methods of testing and assessing materials for dental use, processing and refining these products are discussed, and the requirements of ideal materials are outlined. Specifications for the materials as outlined by the American Dental Association and the U.S. Bureau of Standards are reviewed.

Textbook: E. W. Skinner, The Science of Dental Materials.

MEDICINE

*Assistant Professor of Medicine
and Clinical Medicine*

I. G. MILNE, *Chairman*

*Clinical Assistant in Medicine,
The Montreal Children's Hospital*

DONALD HILLMAN

Assistant Professor of Paediatrics

E. M. WORDEN

Associate Professor of Medicine (Dermatology)

L. P. EREAUX

Lecturers in Medicine

R. F. P. CRONIN

S. O. FREEDMAN

A. GOLD

G. JORON

J. L. HUTCHISON

This course of 20 lectures is designed to familiarize the dental student with the principles of Medicine. Particular attention is paid to:

(1) The relationship of good prenatal care and proper nutrition during infancy and childhood to dentition and the subsequent health of teeth and gums.

(2) Oral manifestations of systemic disease and the importance of oral health in the successful treatment of certain medical conditions.

(3) Medical complications of dental surgery and their prophylaxis.

METALLURGY

Associate Professor

H. H. YATES

This course is given to Dental students of the Second year by the Metallurgical Department of the University, located in the Physical Sciences Centre.

OFFICE PROCEDURE

It consists of fifteen lectures of one hour, and about ten laboratory periods of two hours each.

The lecture course covers:

(1) Introductory lectures on the mechanical, physical and chemical properties of metals, especially in relation to their use in dentistry.

(2) The metallurgical principles of interest to the dentist are discussed, with particular emphasis on factors to be considered in casting, working, alloying, and heat treatment.

(3) The metals and alloys used in dentistry are considered in terms of the above principles. The properties of amalgams and gold alloys, both cast and wrought, are given special attention and the proper care of steel instruments is discussed in terms of the metallurgical behaviour of steels.

Textbook: E. C. Rollason, *Metallurgy for Engineers* (Edward Arnold).

Reference Books: E. A. Smith, *Dental Metallurgy*; E. W. Skinner, *The Science of Dental Materials*; Wulff, *Taylor and Shaler, Metallurgy for Engineers*; Mondolfo and Zmeskal, *Engineering Metallurgy*.

The Laboratory course includes experimental work with the metals: gold, silver, copper, lead, zinc, tin, aluminum, nickel, iron, and steel.

The metals and some of their alloys are hammered, filed, cut, rolled, heat treated, and tested to determine their important mechanical properties. In some cases chemical properties are investigated briefly.

Pure gold and silver are prepared and dental and other amalgams are prepared and tested.

The course is given during the first term of each session by Professor Yates.

OFFICE PROCEDURE AND PRACTICE MANAGEMENT

Lecturers

JOHNSTON W. ABRAHAM
VICTOR HOUGHTON

This course consists of fifteen lectures given in the Fourth year. The purpose is to enable the undergraduate to understand the problems encountered in the conduct of a successful dental practice. The lectures consider the dentist's personal preparation (mental, moral, and physical); his relation and obligation to the patient, to the public, and to the community; and finally, office location, office management, and records. Advice is offered on dental fee questions, accumulation of a competence, insurance, and investments.

DENTISTRY

OPERATIVE DENTISTRY

Assistant Professors

E. R. AMBROSE, *Chairman*

HARRY ROSEN

Lecturers

ROBERTA P. DUNDASS

MARCEL HEBERT

Demonstrators

G. M. DUNDASS

T. C. POSTANS

W. R. F. DOHN

W. R. ROBINSON

G. K. HALE

R. P. W. RYAN

L. C. MORAN

W. D. SANDERS

D. J. MUNRO

A. J. SCHUTZ

R. NADEAU

J. E. VANVLIET

Z. B. NYESTE

J. VINCELLI

The purpose of this course is to instruct and train the student in the treatment of all diseases of, and injuries to, the hard tissues of the teeth and the restoration of the anatomy of the tooth in relation to function. Special attention is given to children's dentistry with the aim that operative procedures will have for their object the inhibition of pathologic processes and the maintenance of normal occlusion.

Lectures and laboratory courses in the First and Second years include all the procedures of operative technique.

Lectures on theory in the Third year combined with practical experience at the Dental Clinic in the Third and Fourth years stress the co-ordination of Operative Dentistry with Dental Hygiene, Orthodontics, Periodontia, Endodontia and Prosthetic Dentistry to the end that the student will graduate with adequate knowledge and ability to treat patients of all ages and conditions of life.

Textbooks: G. V. Black, 2 Vol. (Medico-Dental Co., Chicago); Gabel, American Textbook of Operative Dentistry (Lea & Febiger); McGehee, True, Inskipp, Textbook of Operative Dentistry (Blakiston); Finn, Clinical Pedodontics (Saunders); Simon, Clinical Operative Dentistry (Saunders); Cohen, Pediatric Dentistry (Mosby).

ORTHODONTICS

Professor

GERALD FRANKLIN, *Chairman*

Lecturer

ALBERT J. COLLE

Demonstrators

CHARLES ASSELIN

CHARLES M. SOLOMON

WALTER SWISTON

This course is designed to give the student a knowledge of normal occlusion and of the basic principles underlying the development of malocclusion, its prevention and treatment. It includes lectures, training in technics,

and clinical treatment of patients. Emphasis is placed on orthodontics as an integral part of dentistry and its relation to other branches of general practice. The practical training serves to develop digital skill and to give the student some experience in movement of teeth.

The course extends over the Second, Third, and Fourth years. Its study commences in the First year with the basic sciences including histology and embryology which cover the development, growth, and eruption of the teeth.

SECOND YEAR

In this year the course is devoted to technique. Exercises in wire bending and in freehand soldering are carried out. In addition, each student is required to take upper and lower impressions of a fellow student and to trim the casts according to standard technique.

THIRD YEAR

In this year the course includes appliance technique and lectures. For review, the taking of impressions and the trimming of casts are repeated. Advanced exercises in freehand soldering are completed. This is followed by construction of bands with attachments, labial appliance, lingual appliance, space maintainer, guide plane, and bite-plate on typodonts. The lectures cover terminology, normal occlusion and its development, and classification of malocclusion and anchorage.

FOURTH YEAR

In the final year a full course of lectures is given and treatment of patients is carried out by the students.

The lectures cover growth and development, etiology, diagnosis, principles of treatment, and prevention and interception of malocclusion. Pertinent histology and physiology of bone is reviewed with special emphasis on tissue changes incident to tooth movement. The relationship of orthodontics to the practice of general dentistry and children's dentistry is continually indicated.

In the orthodontic clinic patients with simpler malocclusions are assigned to the students. Appliances are designed by the staff and constructed of precious metals by the student who then carries out the treatment under strict supervision. In addition to being responsible for the patient assigned to him, each student is required to observe all the cases being treated in the clinic.

Textbooks: Anderson, Practical Orthodontics, 8th edition (C. V. Mosby); Salzmann, J. A., Orthodontics, Principles and Prevention (J. B. Lippincott Co.); Brash, Aetiology of Irregularity and Malocclusion of the Teeth; Salzmann, J. A., Orthodontics, Practice and Technics (J. B. Lippincott Co.); McCoy, Sheperd, Applied Orthodontics (Lea and Febiger) 7th edition.

PATHOLOGY, GENERAL

<i>Professor</i>	G. C. McMILLAN, <i>Chairman</i>
<i>Associate Professor</i>	A. C. RITCHIE
<i>Assistant Professor</i>	D. S. KAHN
<i>Lecturers</i>	J. KERNER S. MOORE
<i>Teaching Fellow</i>	J. PHILLIPS

1. COURSE IN GENERAL PATHOLOGY

A. Two lectures per week (with epidiascopic and microscopic demonstrations) during the 2nd, 3rd, and 4th terms. (48 lectures.)

Drs. Kahn, Kerner and Moore

B. Two practical laboratory classes per week during the 3rd and 4th terms. (80 hours practical work.)

Drs. Kahn, Kerner and Phillips

Textbooks: Boyd, Text-book of Pathology (Lea & Febiger). Wright, Introduction to Pathology (Longmans Green).

PATHOLOGY AND DIAGNOSIS, ORAL

<i>Associate Professor</i>	A. GERALD RACEY, <i>Chairman</i>
<i>Assistant Professor of Clinical Dentistry</i>	LYMAN E. FRANCIS
<i>Lecturers</i>	RALPH S. EDMISON LESLEY A. GILL JOHN MCCARTHY

This course is designed to teach the recognition of lesions of the oral cavity and the underlying pathological involvement. The course extends throughout the junior and final years.

In the junior year it includes the study of the developmental defects and malformations of the teeth. Special consideration is given to the study of the etiology, diagnosis, and pathology of dental caries; diseases of the dental pulp; periapical diseases; periodontal diseases; odontogenic cysts; and tumours which commonly occur in the oral cavity. A study is also made of the oral manifestations of certain of the infective granulomata, as well as vitamin deficiencies and endocrine disturbances.

A laboratory course of three hours a week for five weeks is given during the last part of the junior year, where a study is made of the microscopic aspects of these lesions.

PERIODONTOLOGY

In the final year the course consists of a consideration of the signs and symptoms of disease of the hard structures of the teeth, the dental pulp, the periodontal membrane and the periapical tissues by means of roentgenographic examination and interpretation and clinical diagnostic tests. A study is also made of the signs and symptoms of disorders of the oral mucous membrane. Treatment planning in conjunction with the other dental teaching departments is given careful consideration.

In the senior year the student serves as a student interne for a period of two weeks. During this time he lives in the Montreal General Hospital with room, meals and uniforms provided. He serves each morning in the Oral Diagnosis Clinic and is on call with the resident interne for the remainder of the entire day for the diagnosis and dental treatment of hospitalized cases both on the wards and in the main hospital operating theatres with the attending Oral Surgeons. In this way the student is afforded an excellent opportunity to observe and to participate in dental service under hospital conditions.

The course extends over the entire year and is composed of lectures and practical instructions.

Text Books: Thoma, Oral Pathology; Thoma, Oral and Dental Diagnosis; Kronfeld, Histopathology of the Teeth and Their Surrounding Structures; Miller, Oral Diagnosis and Treatment; Burket, Oral Medicine; Color Atlas of Oral Pathology (Lippincott); Shafer, Hine and Levy, Oral Pathology.

PEDODONTICS

Lecturer

ROBERTA DUNDASS, *Chairman*

Assistant Professor

ERNEST R. AMBROSE

Demonstrators

ROLAND NADEAU

WILFRID R. ROBINSON

ALBERT J. SCHUTZ

Guest Lecturer

HARRY M. SLATER

A course introducing child management, treatment planning, and operative procedures, presented to the Third year. Clinical instruction is conducted throughout the Fourth year.

PERIODONTOLOGY

Associate Professor WALLACE F. WALFORD, *Chairman*

Assistant Professor

PHILIP J. GITNICK

Lecturers

ROBERT F. HARVEY

J. DOUGLAS STEWART

The course, given to the junior and senior years, is designed to give the student a knowledge of the basic principles of oral prophylaxis, diagnosis, and the treatment of periodontal lesions.

The instruction given to the junior year consists of demonstrations of clinical prophylaxis followed by seminars on clinical cases. Laboratory instruction on models of clinical cases is featured during the junior year.

In the final year the course consists of thirty lectures and sixty clinical periods. Immediately following the lecture on any phase of treatment, a clinical period is devoted to application of the subject matter covered in the lecture.

The class is divided into small groups for clinical demonstrations both in the laboratory and upon patients. Each student thus has an opportunity to view, and to ask questions to an extent not possible with larger groups. Each student has an opportunity to carry out this instruction by treatments, under supervision, of patients in the University Dental Clinic at the Montreal General Hospital.

The clinical outpatient department provides an adequate supply of teaching material of representative periodontal lesions and this is further supplemented by patients referred to the department by local practising dentists.

Textbooks: Glickman, Periodontology; Goldman, Periodontal Therapy.

PHARMACOLOGY, GENERAL

<i>Professor</i>	K. I. MELVILLE, <i>Chairman</i>
<i>Associate Professor</i>	D. R. WOOD
<i>Assistant Professors</i>	B. G. BENFEY
	N. R. EADE

A course of twelve lectures concerned with those phases of pharmacology which are of importance in dentistry, supplemented by six laboratory periods.

Textbooks: Krantz and Carr, Goodman and Gilman, or Drill.

PHARMACOLOGY AND THERAPEUTICS, DENTAL

<i>Associate Professor</i>	WILFRED J. JOHNSTON, <i>Chairman</i>
<i>Assistant Professor</i>	LYMAN E. FRANCIS

A course for Third year students intended to provide a study of those drugs not covered in the General Pharmacology course which are of particular interest in the treatment of pathological conditions of the oral cavity.

Textbooks: Prinz, Rickert, and Dobbs, Dental Materia Medica and Therapeutics, Accepted Dental Remedies.

REMOVABLE DENTURE PROSTHESIS

Associate Professors JAMES McCUTCHEON, *Chairman*

M. A. ROGERS

Assistant Professors

R. E. DAGG

D. W. HENRY

Lecturers

A. F. CAMERON

J. T. ELO

Demonstrators

J. M. CHAMARD

F. E. SHAMV

W. KOWAL

H. J. SMART

H. L. MUSSELS

O. P. SYKORA

P. A. OSTAPOVITCH

The Department of Denture Prosthesis includes in its teaching instruction on Examination, Diagnosis, Treatment-Planning, Construction and Maintenance related to removable partial and complete dentures, and such other appliances of a similar nature used in the treatment of cleft-palate and post-surgical cases.

The subject is offered in each of the four years of the course.

First year: The subject is introduced as a part of the Freshman Technics course. Work is completed on manikins and is restricted to materials and parts of basic denture techniques.

Second year: In this year the subject is dealt with at the technical level only, but comprehensive exercises in full techniques are taught.

Third and Fourth years: The final two years are clinical years. The student is expected to treat several different kinds of cases for actual patients.

The technical and clinical training is supported by lecture and seminar series in each year.

Textbooks: Edward Kennedy, Partial Dentures (Dental Items of Interest); F. G. Neurohr, Partial Dentures (Lea & Febiger); Swenson, Complete Dentures (Mosby); Anthony, American Textbook of Prosthetic Dentistry (Lea & Febiger); Schweitzer, Restorative Dentistry (Mosby); Schwartz, Modern Method of Tooth Replacement (Dental Items of Interest); O. C. Applegate, Essentials of Removable Partial Denture Prosthesis (W. B. Saunders); Schlosser, Complete Denture Prosthesis (Saunders).

FIXED PARTIAL DENTURE PROSTHESIS

Professor

W. C. BUSHELL, *Chairman*

Assistant Professors

W. H. BOYLES

P. R. MARCHAND

DENTISTRY

Lecturers

R. T. LAMB
W. G. STOCKWELL

Demonstrators

C. H. DUNDASS
F. O. FREDERICK
L. E. KENT
H. PTACK
A. E. PYE

This course covers the teaching of methods of repairing dental lesions by means of individual crowns and fixed partial dentures.

The teaching covers the theoretical, technical and clinical aspects of the subject and extends over the last three years of the dental course.

In the Second and Third years the teaching is carried on in the laboratory with models.

During the last two years the theoretical aspects are taught in a series of lectures.

In the Fourth year the treatment of suitable clinical cases is carried out by the students under the supervision of demonstrators.

Ceramics is also taught as a part of this course.

Textbooks: Gillet and Irving, Inlays by the Indirect System (Dental Items of Interest); Schwartz, Cavity Preparation (Dental Items of Interest); Le Gro, Ceramics in Dentistry (Dental Items of Interest); Felcher, Art of Porcelain in Dentistry; Stanley D. Tylman, Crown and Bridge Prosthesis.

PHYSIOLOGY

Joseph Morley Drake Professor

F. C. MACINTOSH, *Chairman*

Professors

B. DELISLE BURNS
A. S. V. BURGEN

Assistant Professors

R. I. BIRKS
SIMON DWORKIN
BERNICE GRAFSTEIN
PAUL SEKELJ
KATHLEEN G. TERROUX

Lecturers

C. PINSKY
E. J. REININGER
O. M. SOLANDT

Sessional Lecturer

HYMAN WEINER

SURGERY, ORAL

The purpose of this course is to give the student an elementary knowledge of the whole subject of physiology with a more special knowledge of such aspects as bear particularly on the practice of dentistry.

The course consists of three lectures a week from October to May, and fifteen laboratory periods of three hours each.

Textbooks: Best and Taylor, *Physiological Basis of Medical Practice*; Langley and Cheraskin, *Physiological Foundations of Dental Practice*; Best and Taylor, *The Living Body*.

RADIOLOGY

Lecturer

E. S. DORION, *Chairman*

Demonstrator

E. C. BURBANK

The introduction to this course is given at the end of Second year, just prior to the beginning of clinical work. At the outset, the possible effects of over-exposure to radiation for both the patient and the operator are stressed and the most efficient means to avoid this danger, demonstrated. The principles of the Right Angle Technique are presented and Dark Room Procedure taught following actual exposure of dental films using the dried human skull as the subject.

At the beginning of Third year the above principles are reviewed and then applied by the students taking full mouth surveys of their own teeth after which they proceed to do likewise for clinical patients. The student is kept ever mindful of the important relation of this survey to all other departments. Lectures are also given on the medical aspects of X-ray examination.

Fourth year students are given every opportunity to improve their knowledge and radiographic technique in their application to oral diagnosis and treatment.

Textbooks: McCall and Wald, *Clinical Dental Roentgenology*; Stafne, *Oral Roentgenographic Diagnosis*; Miller, *Oral Diagnosis and Treatment*; Thoma-Robinson, *Oral and Dental Diagnosis*; Simpson, *Advanced Radiodontic Interpretation*.

SURGERY, ORAL

Professor

JOHN W. GERRIE, *Chairman*

Associate Professors

A. GERALD RACEY

M. A. ROGERS

Assistant Professor in Charge of Exodontia

ROGER E. McMAHON

Assistant Professor

S. J. MARTIN

Lecturers

JOHN MCCARTHY

ROBERT M. WIENER

ERIC P. MILLAR

Demonstrators

GEORGE BRABANT

LOUIS EPSTEIN

E. H. JONES

RODNEY A. LEFEBVRE

D. H. MUHLSTOCK

The course, given during the junior and final years, is designed to make the student proficient in the arts of local anesthesia and exodontia and to familiarize him with the principles of general surgery and the details of oral surgery including surgical treatment of malignant disease.

Although work in the department is largely clinical, forty-five lectures are given to provide a didactic groundwork. The patients in the medical and surgical services, both indoor and out-patients, are available for teaching. In addition, students attend in groups at the Tumour Clinic where a large series of malignant conditions is demonstrated. Clinical lectures are given in the operating theatres, and ward rounds are conducted in the wards where mouth conditions of interest to dental students are shown.

The larger part of the lecture work is given before Christmas in the junior year. The introductory work in local anaesthesia is completed and an examination held. The student is then introduced to the Exodontia Clinic at the Hospital. Here he is given demonstrations and is required to follow the exodontia practice of the senior students.

The senior year is primarily clinical. In it the didactic work of the Third year is enlarged upon. Students practice in the exodontia clinic daily under the direction of members of the staff and are assisted after Christmas by a junior student. The class attends Oral Surgery Clinics and ward rounds once a week when histories are taken and patients examined. Oral Surgery clinics are held twice weekly at which the more advanced mouth procedures are carried out. Attendance at these is not compulsory but interesting cases are demonstrated.

Text and Reference Books: Blair and Ivy, Essentials of Oral Surgery; Thoma, Oral Surgery, Volumes 1 and 2; Archer, Oral Surgery; Berger, Principles and Technique of the Removal of Teeth; Ivy and Curtis,

Fractures of the Jaws; Winter, Operative Oral Surgery; Nevin and Puterbaugh, Conduction, Infiltration and General Anaesthesia in Dentistry; Parker, Traumatic Injuries of the Face and Jaws; Padgett, Surgical Diseases of the Mouth and Jaws; Thoma, Clinical Pathology of the Jaws; Burket, Oral Medicine; Fry, Shepperd, McLeod and Parfitt, Dental Treatment of Maxilla and Facial Injuries.

CLINICAL FACILITIES

Associate Professor of Clinical Dentistry

M. A. ROGERS

The McGill University Dental Clinic is an integral part of the Out-Patient Department of the Montreal General Hospital. The Clinic, newly equipped and occupied on completion of the building in 1955, overlooks the City of Montreal from the slope of Mount Royal. Here, under the guidance of the Clinical Director and his associates in what we believe to be one of the best equipped undergraduate dental teaching clinics in America, students are taught to carry out all phases of Clinical Dentistry and related laboratory procedures.

The Third and Fourth year students attend this Clinic daily except for such time as may be taken up by lectures or other University work. Students entering the Third year must spend the period between the last of the regular May examinations and the end of June in the Clinic.

An abundance of teaching material in all aspects of Dentistry is always available. Integration with the Montreal General Hospital offers the facilities of all departments in that Hospital and allows the students to observe a wide variety of interesting and unusual cases under treatment.

A registered nurse and two resident internes are in attendance at all times.

General anaesthetics are administered in the dental surgery by the Department of Anaesthesiology of the Hospital.

LIBRARY

The Reading Room of the Medical Library which is on the third floor of the Medical Building is open to students of the Faculty of Dentistry and has a section dealing exclusively with dental subjects including standard texts, reference books and the current issues of the major dental journals. Bound volumes are kept in the stack areas on the second floor. The Library is open during the academic session from Monday to Friday, 9 a.m. to 10 p.m., Saturday 9 a.m. to 5 p.m. After June 15th the hours are 9 a.m. to 5 p.m. Monday to Friday, closed Saturday.

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McGill University

Montreal



Faculty of Law

Chancellor Day Hall

1960-1961

PUBLICATIONS

The following official publications are issued by the University and may be obtained from the Registrar's Office.

Announcements of Faculties and Schools as follows:

General Announcement

School Certificate Examinations

Scholarships, Bursaries, and Loan Funds

Faculty of Arts and Science (Degrees in Liberal Arts and in Pure Science. There is a separate Announcement for the School of Commerce.)

Faculty of Medicine

Faculty of Medicine Postgraduate Courses

Faculty of Dentistry

Faculty of Engineering (Degrees in Engineering and in Architecture.)

Faculty of Law

Faculty of Music

Faculty of Divinity

Faculty of Graduate Studies and Research

School of Commerce

Library School

School for Graduate Nurses

School of Physical and Occupational Therapy

School of Social Work

Macdonald College (Faculty of Agriculture, School of Household Science.)

Institute of Education

French Summer School

Extension Courses

The Directory of Staff (University administrative officers, standing committees, and officers of instruction. Limited distribution.)

The Calendar (Available for distribution only to libraries and officials of certain institutions.)

Faculty of Law

ADMINISTRATIVE OFFICERS

F. CYRIL JAMES, Chevalier de la Légion d'Honneur, B.Com., M.A., Ph.D.,
D.Sc., D. de l'U., D.C.L., LL.D., F.R.S.C. *Principal*

W. C. J. MEREDITH, Q.C., M.A., D.C.L. *Dean of the Faculty of Law*

JOHN H. HOLTON, B.Com. *Secretary of the Board of Governors*

G. A. GRIMSON, B.Com. *Comptroller*

COLIN M. McDougall, D.S.O., B.A. *Registrar*

R. I. CHEFFINS, B.A., LL.B. (U.B.C.), LL.M. (Yale)
Secretary of the Faculty of Law

MRS. PHYLLIS O'NEILL *Assistant-Secretary of the Faculty of Law*

A complete list of the teaching staff of the University, including the Faculty of Law, is printed as a separate announcement which may be obtained from the Registrar's Office.

FACULTY OF LAW OFFICE

CHANCELLOR DAY HALL

3644 Peel Street

Montreal 2

Telephone — VI. 4-6311

GENERAL INFORMATION

COURSE OF STUDY

The Faculty offers a three year course leading to the degree of B.C.L. Students proceeding to the legal and notarial professions are required to take an additional year of practical training and to pass further examinations. The degree course provides a liberal education in legal principles and theory, and prepares students for the legal and notarial professions, as well as for public service and business. In the field of private law, the curriculum is based on the Civil Law system and in particular on the Quebec Civil Code; in the field of public law, stress is laid on Constitutional, International, and Administrative law, and on the new institutions and procedures resulting from the increased role of government in the modern state. The courses given in every case require at least two hours of directed study for every hour of lecture. In addition essays are required in the First and Second years, and a thesis or equivalent additional work in the Third year.

ADMISSION*

To be qualified for admission to the Faculty a student must have obtained a B.A. degree from a Canadian university or a university or college of which the degree is recognized by McGill University as equivalent.

Application forms, which can be obtained by writing to the Faculty, must be completed and submitted by August 15th.

In exceptional cases students who do not intend to practise either the legal or notarial profession may be admitted to the Faculty if they have successfully completed two years in the Faculty of Arts and Science at McGill University, or have obtained an equivalent educational standard, and are intellectually qualified to pursue with advantage the study of law.

Women are admitted to the Faculty on the same terms as men, and are eligible for the degree.

The Faculty may admit a limited number of suitable persons to attend selected courses of lectures without matriculation in a University. Such permission will only be granted to applicants who satisfy the Faculty of their capacity to undertake with advantage the study of law. They will not be allowed to proceed to a degree, but will be entitled to receive a certificate specifying the course of study which they have successfully pursued and the class which they have obtained in the examination.

Candidates for admission may be required to interview the Dean or the Secretary of the Faculty and to obtain permission to register. In all cases admission is at the discretion of the Faculty.

*For students proceeding to the Bar and the notarial profession, see page 2013.

REGISTRATION, FEES, PRIZES

FRENCH

The attention of students is directed to the necessity of being able to read French easily, since many of the works to which they will be referred are written in that language. Reasonable fluency in spoken French is recommended for those who intend to practise in the Courts of this Province.

REGISTRATION

All students must register in person at the office of the University Registrar on Tuesday or Wednesday, September 20th or 21st.

Students registering later than the prescribed dates will be required to pay a late registration fee of \$5 during the first week of the session and \$10 during the second. This will not be refunded, except by special permission of the Faculty.

Students must bring with them at the time of registration the evidence necessary to show that they are entitled to admission into the Faculty, if this has not already been furnished. A written acceptance by the Faculty of Law must be presented to the Registrar.

FEES

The regular fees and special fees are given in the General Information Pamphlet included with this Announcement.

DATES FOR PAYMENT

Fees are due and payable at the Accounting Office on Tuesday or Wednesday, September 20th or 21st, but they may be paid before these dates. The second instalment is due and payable on January 16th. An additional \$2 is charged for payment after the specified dates. An instalment fee of \$5 is charged when fees are paid in two instalments.

Students registering late must pay their fees when they register, failing which they become subject to the provisions of the above paragraph.

Immediately after the prescribed dates for the payment of fees a list of the registered students who have not paid their fees is sent to the Dean of the Faculty, who removes their names from the register of attendance. Such students are not readmitted to any class until advice has been received from the Chief Accountant that the fees have been paid.

PRIZES, SCHOLARSHIPS, AND MEDALS

The *National Scholarships* are designed to enable outstanding men and women from all parts of Canada who would not otherwise be able to do so

to enter any professional faculty of the University such as Law, Medicine, Dentistry, Divinity, etc. The undergraduate work of candidates must have been completed at some other university. These scholarships are tenable for four years or for the period necessary for the holder to obtain his degree, whichever is the shorter period, provided academic standing satisfactory to the University Scholarships Committee is maintained. The amount awarded will depend upon need, but may extend to the full costs of tuition, residence, and board. Normally, National Scholarships will be awarded only to students who reside outside the Montreal area. Applications should be made to the Dean of the Faculty of Law by August 15th.

University Scholarships, after one year at McGill, may be awarded by the University Scholarships Committee to students in any year of any undergraduate faculty. They are awarded for exceptionally distinguished work in the regular University examinations and special applications are not required. They are renewable annually provided a sufficiently high academic standing is maintained. University Scholarships carry no financial stipend. Where there is financial need, however, winners may apply for assistance. Winners from the Montreal area may, on proof of need, receive up to full tuition fees. Winners from other parts of Canada may receive up to full tuition fees, plus \$500 as indicated by the need for financial assistance.

The *Chief Justice R. A. E. Greenshields Memorial Scholarships* were founded by the will of the late Mrs. R. A. E. Greenshields in memory of her husband, the late Chief Justice Greenshields, D.C.L., LL.D., for many years professor of Criminal Law and Dean of the Faculty of Law. Two scholarships of the value of \$400 each are awarded annually to students entering the Faculty of Law and are renewable in each of the two upper years leading to the Bachelor of Civil Law degree, provided that the student's conduct is satisfactory and that he maintains at least a high Second Class standing, or in the opinion of the Faculty is for other reasons entitled to its renewal. Candidates must satisfy the regular requirements for admission to the Faculty, must have earned a scholastic standing of at least high Second Class, and preferably First Class at the University or Institution which they previously attended, and must furnish evidence of the necessity of financial assistance in order to be able to take up the study of law. Although fluency in both English and French is not essential, preference will normally be given to an applicant who has a good working knowledge of both languages.

The *Thomas Alexander Rowat Scholarship* was founded by Mr. Donald McKenzie Rowat, N.P., in memory of his brother, Lieutenant Thomas Alexander Rowat, B.C.L., who was killed in action at Lens, France, on the 28th June, 1917. The value of the scholarship is approximately

\$125. It is awarded in alternate years for proficiency in the French language and in the old French law.

The *Maurice Goldenberg Memorial Scholarship*. This scholarship of \$100 in Government, Constitutional Law, or Public Administration has been established by Mr. H. Carl Goldenberg in memory of his father, the late Maurice Goldenberg. It is awarded annually by the University Scholarships Committee to the best candidate amongst those nominated by the Faculty of Arts and Science and the Faculty of Law. The scholarship is open to both men and women with no restriction as to race, creed, or colour.

The *Alexander Scholarship*, consisting of \$45 was established in 1950 under the will of the late Maurice Alexander, C.M.G., K.C., of London, England, as a token of esteem for the late Sir Charles Peers Davidson, former Professor of Criminal Law at McGill University. It is awarded annually to a student selected by the Faculty.

The *Lyon W. Jacobs Bursary*. Established in November, 1957 by donations totalling \$500 from the son and daughters of Mr. Lyon W. Jacobs, Q.C. in honour of their father. This fund is to be used to provide an annual \$100 award to a Second or Third year law student who, in the opinion of the Faculty of Law shows the most progress in his studies and is also in financial need.

The *Charles Albert Nutting Prize* was founded in 1930 by Miss Adelaide Nutting, M.A., R.N., in memory of her brother, Charles Albert Nutting, Q.C., B.C.L., who graduated from this Faculty in 1872. The value of the prize is approximately \$70. It is awarded to the student in the First or Second year submitting the best essay on a topic related to legal history, the topic to be fixed in advance by the Faculty.

The *Carswell Company Prizes*, consisting of two sets of books valued at \$30 each, are awarded to first or second year students at the discretion of the Faculty. These prizes were established in 1948 by the Carswell Company of Toronto.

The *Reading Society Prize*, established in 1952 by the Reading Society of Montreal, consists of \$50 to be awarded annually to the student who obtains the highest standing in the First year.

The *Alexander Morris Exhibition*, of the value of \$50, founded in memory of the late Hon. Alexander Morris, M.A., D.C.L., of Toronto, will be awarded to the student who obtains the highest standing in the Second year.

The *Adolphe Mailhiot Prize*, established by Mr. and Mrs. J. N. Mailhiot of Victoriaville, P.Q., in 1927, consists of a prize of law books to be given annually to a student selected by the Faculty.

The *Montreal Bar Association* offers a prize of \$50 to the student who obtains the highest standing in Civil Law in the final year and a prize of \$50 to the student who obtains the highest standing in Civil Procedure in the final year. The Junior Bar Association also offers a prize of \$15 to the student who obtains the best marks in Civil Procedure in the final year.

The *Chief Justice Robert Alfred Ernest Greenshields Prize in Criminal Law*, founded in 1943 by Mrs. Greenshields in memory of her husband, the late Chief Justice Greenshields, D.C.L., LL.D., for many years Professor of Criminal Law and Dean of the Faculty of Law. The prize will be awarded to the member of the graduating class having the highest standing in Criminal Law throughout the college course.

The *John E. Crankshaw Prize*, established by friends of the late John E. Crankshaw, Q.C., formerly lecturer in Criminal Law at McGill University. The prize consists of an Advocate's Gown, a copy of the Annotated Criminal Code, and, revenue permitting, the year's Bar Fee. It is to be awarded to the student who has obtained the highest standing in Criminal Law subjects at McGill University and has passed his final examination for admission to the Bar of the Province of Quebec.

The *I.M.E. Prize in Commercial Law* was established by Mr. George S. McFadden Q.C. and consists of \$70 in law books awarded annually to the member of the graduating class having the highest standing in Commercial Law throughout the course.

The *H. E. Herschorn Prize* consists of \$100 to be given annually by Mr. H. E. Herschorn, N.P., B.A. 1911, B.C.L. 1914, and awarded to the highest ranking student of the graduating class who intends to enter the Notarial profession.

The *Faculty Essay Prize* consist of \$50 to be awarded annually to the student writing the best essay in public law in the Third year.

The *Arnold Wainwright Prize* consists of \$150 to be awarded annually to the student writing the best essay in civil law in the Third year.

The *Max Crestohl Prize*, consisting of \$40, was established in 1959 under the Will of the late Max Nathan Zion Crestohl, Q.C. It is awarded annually to the student who, in the opinion of the Faculty, has submitted the best written contribution to the McGill Law Journal.

The *Macdonald Travelling Scholarship* was founded by the will of the late Sir William Macdonald "for the purpose of enabling English-speaking Law students to take a course of studies in France," the testator "deeming it of great importance that the English-speaking members of the legal profession should be proficient in the French language." The value of the scholarship is approximately \$1,000. The scholar elected is required

SCHOLARSHIPS

to pursue a year's study in the Law Faculty of a French University approved, in each case, by the Faculty. The award is made at the discretion of the Faculty to a student of the graduating class proceeding to the Bar, who has obtained first or second class honours in the final examination, and who would be unable without such financial help to spend a year in France. The Faculty interprets the will of the late Sir William Macdonald as intending that the Scholarship be awarded only to students preparing for practice as advocates in the Province of Quebec. Under the present regulations the Scholarship must be used in the year in which it is awarded.

The *Edwin Botsford Busteed Scholarship* was founded by the will of the late Mrs. Busteed in memory of her husband, Edwin Botsford Busteed, K.C., B.A., B.C.L., and will be awarded to an applicant, chosen by the Faculty, who desires to carry out graduate research on some subject connected with the law of Quebec and approved by the Faculty. The value of the scholarship is approximately \$240.

The *Elizabeth Torrance Gold Medal*, founded in 1864 by Professor John Torrance in memory of his wife, is awarded to the student who obtains the highest marks in the Final Examination.

The *I. Ballon Memorial Medal* was established in 1955 by Mrs. I. Ballon in memory of her husband, the late Isidore Ballon, B.A. 1907, B.C.L. 1908, and is awarded annually to the most outstanding student on the Board of Editors of the *McGill Law Journal*.

The *A. Fleming Loan Fund* was established in 1954 by Mr. A. Fleming to aid students in the Faculty of Law. Application should be made to the Dean.

No medals, prizes, or scholarships will be awarded, if in the opinion of the Faculty there is no candidate of sufficient merit.

SCHOLARSHIPS ANNOUNCEMENT

A complete list of scholarships and bursaries and the regulations governing the various loan funds are given in the Announcement of Scholarships, Bursaries, and Loan Funds which may be obtained from the Registrar's Office.

DEGREES

B.C.L.

The degree granted in the Faculty is that of Bachelor of Civil Law. The course covers three years.

LAW

M.C.L.

The degree of Master of Civil Law is granted under the authority of the Faculty of Graduate Studies and Research for advanced study in law. The candidate must have the degree of B.C.L. from McGill or its equivalent, and must have obtained at least second class honours in the subject which he proposes to study and in the course as a whole. He must spend at least one year in resident study and present a thesis on some topic connected with his subject. The complete regulations governing this degree are given in the Announcement of the Faculty of Graduate Studies and Research.

LL.M.

The degree of Master of Laws is granted under the authority of the Faculty of Graduate Studies and Research for studies in the field of International Air Law. The requirements for this degree are summarized on page 2014 of this Announcement.

LIBRARY

The Law Library of the University at present contains over 30,000 volumes, and is located in Chancellor Day Hall. The principal law reports of Canada, the United Kingdom, and France are included, as well as a selection of reports from the United States and elsewhere.

Books will be loaned by the library, but fines are assessed for books overdue.

The Redpath Library, the general University library, is also available for the use of Law students.

EXAMINATIONS

*Examinations will be held:

- (a) At the end of the First year, covering the year's work.
- (b) At the end of the Second year, covering the Second year's work.
- (c) At the end of the Third year, on the work of the Third year.

Special tests may be required by the Faculty at any time.

At all examinations in the Faculty students are at liberty to write their answers either in English or in French.

CLASSIFICATION OF MARKS

Class I	80-100%
Class II	70- 79%
Class III	50- 69%

In order to pass a student must have an overall average of at least 60%.

*These requirements are subject to alteration by the Faculty, of which notice will be given.

SPECIAL EXAMINATIONS

- (a) Students are not allowed the privilege of writing supplemental examinations. Special examinations may be set in the event of illness at the time of examination and in analogous cases.
- (b) All applications for special examinations must be made to the Dean in writing and must reach his office before July 1st.
- (c) The prescribed fees must accompany the written application and are payable to McGill University. Fees for special examinations will be ten dollars for each paper, with a maximum charge of fifty dollars. If the Third year essay is not accepted, in addition to the foregoing, a charge of \$10 for reading the revised essay will be made.
- (d) Students will only be permitted to repeat a year at the discretion of the Faculty.

GRADUATING ESSAY AND OPTIONS

In addition to passing examinations, students must submit, not later than the 15th of January of their Third year, an essay of not less than ten thousand words on a subject set by the Faculty. They must also take one of the seminars offered to Third year and graduate students.*

CURRICULUM **

FIRST YEAR

INTRODUCTION TO THE STUDY OF LAW

One hour throughout the session.

Professor Louis Baudouin

ROMAN LAW

Two hours throughout the session.

Dr. J. G. Gazdik

CIVIL LAW

(a) Persons and Property.

Three hours throughout the session.

Professor Louis Baudouin

(b) Obligations I.

Two hours, one term.

Professor Paul A. Crepeau

*McGill Law Journal editors are exempt from this requirement.

**This curriculum is based on the requirements laid down by the Bar of the Province of Quebec, and is subject to revision without notice.

LAW

CRIMINAL LAW

Two hours throughout the session.

Professor R. I. Cheffins
Mr. Joseph Cohen, Q.C.

LEGAL HISTORY

Two hours, one term.

Professor J. W. Durnford

CONSTITUTIONAL LAW

Two hours, one term.

One hour, the other term.

Professor F. R. Scott

LEGAL METHOD

One hour throughout the session.

Professor R. I. Cheffins

CIVIL PROCEDURE I

Two hours, one term.

Mr. S. Weber, Q.C.

INTRODUCTION TO THE LAW OF EVIDENCE

One hour, one term.

Dean W. C. J. Meredith, Q.C.

SECOND YEAR

CIVIL LAW

(a) Obligations II.

Three hours throughout the session.

Professor Paul A. Crepeau

(b) Sale, Lease and Hire, Mandate, Partnership, Minor Contracts, and Carriers.

Two hours throughout the session.

Professor J. W. Durnford

CIVIL PROCEDURE II

Two hours, one term.

Mr. Justice G. S. Challies

COMMERCIAL LAW

(a) General Principles, Commercial Contracts.

Two hours, one term.

Professor J. W. Durnford

(b) Negotiable Instruments and Banking.

One hour throughout the session.

Mr. G. E. Le Dain

(c) Insurance.

One hour throughout the session.

Mr. J. B. O'Connor

CONSTITUTIONAL LAW

Two hours throughout the session.

Professor F. R. Scott

CRIMINAL PROCEDURE AND EVIDENCE

Two hours, one term.

One hour, the other term.

Mr. Joseph Cohen, Q.C.

INTERNATIONAL LAW

Two hours throughout the session.

Professor Maxwell Cohen

THIRD YEAR

CIVIL LAW

- (a) Privileges, Hypothecs, Registration, and Prescription.
Two hours, one term.

Mr. James A. Soden

- (b) Marriage Covenants.
Two hours, one term.

Mr. R. T. Clarkson

- (c) Successions, Gifts, Wills, Substitutions, and Trusts.
Two hours, one term.

Mr. R. T. Clarkson

COMPANY LAW

- One hour throughout the session.

Mr. P. F. Vineberg

CIVIL PROCEDURE III

- Two hours throughout the session.

Dean W. C. J. Meredith, Q.C.

PRIVATE INTERNATIONAL LAW

- Two hours throughout the session.

Paul A. Crepeau

JURISPRUDENCE

- Two hours throughout the session.

Professor Maxwell Cohen

ADMINISTRATIVE LAW

- Two hours throughout the session.

Professor R. I. Cheffins

MUNICIPAL LAW

- One hour, one term.

Mr. Graham Gould, Q.C.

INDUSTRIAL LAW

- One hour throughout the session.

Mr. Marc Lapointe

TAXATION

- One hour throughout the session.

Mr. G. T. Tamaki

EVIDENCE

- One hour, one term.

Mr. Justice G. R. W. Owen

MARITIME LAW

- One hour, one term.

Mr. Justice G. R. W. Owen

BANKRUPTCY

- One hour throughout the session.

Mr. W. J. McQuillan

THIRD YEAR AND GRADUATE SEMINARS

COMPARATIVE LAW

- Two hours throughout the session.

Professor Louis Baudouin

BASIC PROBLEMS IN CANADIAN CONSTITUTIONAL LAW

- Two hours throughout the session.

Professor F. R. Scott

LAW

THE LAW AND CONSTITUTION OF INTERNATIONAL ORGANIZATIONS

Two hours throughout the session.

Professor Maxwell Cohen

LEGAL PROBLEMS IN GOVERNMENT CONTROL OF BUSINESS

Two hours throughout the session.

Professor Maxwell Cohen

FOURTH YEAR

Although students may be granted the degree of B.C.L. at the end of their Third year, those who are candidates for admission to the Bar and to the Notarial profession of Quebec are required to take a fourth year.

The Fourth year for students proceeding to the Bar is directed by the Dean. The course consists of practical instruction in the following subjects:

- (a) Lectures and seminar instruction in drafting of legal documents and opinions, and practical instruction in Civil Law, Civil Procedure, Criminal Law and Procedure, Parliamentary Procedure, Company Law, Accountancy, Municipal Law, Taxation Law, and Legal Ethics and Professional Organization. Practical instruction in these subjects is given by the Dean and by twenty-seven practitioners.
- (b) Trial Technique in Civil and Criminal Matters
- (c) Practical training in selected law offices or in Judges' Chambers.

ADMISSION TO THE LEGAL PROFESSION IN QUEBEC

Candidates proceeding to the Quebec Bar must be Canadian citizens and hold the degree of B.A. from a Canadian university or a university or college of which the degree is recognized jointly by Laval, McGill, Montreal, Ottawa, and Sherbrooke Universities, and in addition by the Bar. They must also satisfy the Bar Examiners that they have successfully completed "the regular course in philosophy" in an approved university. The philosophy course may, with permission from the Faculty, be taken concurrently with the law course.

Candidates for admission to the Notarial profession in Quebec must be Canadian citizens and hold the degree of B.A. from Laval, McGill, Montreal or Ottawa Universities, or another university or college of which the diploma is recognized as equivalent by one of them, for admission to its law course. They are required to have studied Latin and Philosophy.

In addition to the university fees for the law course, candidates are required to pay special fees for admission to the Bar or the Notarial profession.

In view of periodic amendments to the Notarial and Bar Acts, candidates are warned that they should not rely on the brief summary of

requirements contained in this Accouncement but should consult the following representatives of the Bar and Notarial profession before admission to the Faculty. Information regarding admission to the Bar may be obtained by applying to Mr. Charles Coderre, Q.C., 170 Dorchester Street East, Montreal, or by consulting the Bar Act of the Province of Quebec. Information regarding admission to the Notarial profession may be obtained by applying to Mr. Arthur Courtois, N.P., Room 320, New Court House, Montreal, or by consulting the Notarial Code, 1941, R.S.Q., chap. 263 (as amended).

INSTITUTE OF AIR AND SPACE LAW

This Institute operates within the Faculty of Law. Its Director is Professor A. Rosevear, Q.C.

The purpose of the Institute is to provide facilities for advanced study in International Air Law for qualified Law graduates, and also to provide an academic organization for fundamental research in this field.

The course of study normally requires two years' residence at the Institute, but those candidates whose work during the First year is, in the Director's opinion, satisfactory, may be permitted during the Second year to offer a thesis *in absentia* on an approved subject within the field of the Institute's work. If the thesis is accepted, the candidate will receive the degree of LL.M.

The annual fee for the course in residence (excluding living expenses in Montreal) is \$500, plus an additional fee of \$25 payable at the time of filing a thesis *in absentia*. Students in residence also pay a fee of \$6 for students' activities.

Applicants for admission must hold a Law degree from an approved Law School in any part of the world, or must have been admitted to the practice of Law, but those having a working knowledge of the English and French languages will be given preference. All candidates must present evidence of the subjects covered in their prior Law studies and of their scholastic standing.

The course commences on the first Monday of October in each year, but candidates should be in residence not later than the preceding Monday. Application forms and curricula are available at the Faculty of Law office,

McGILL LAW JOURNAL

The McGill Law Journal is managed and edited by a board of students of the Faculty of Law. Scholarship and literary capacity determine the group of students who are selected as members of the editorial board. The Journal is a recognized activity of the Faculty of Law and is designed particularly to promote understanding in the common law world of the Quebec civil law system.



McGill University



Montreal

Faculty of Music
1960-1961

PUBLICATIONS

The following official publications are issued by the University and may be obtained from the Registrar's Office.

Announcements of Faculties and Schools as follows:

General Announcement

School Certificate Examinations

Scholarships, Bursaries, and Loan Funds

Faculty of Arts and Science (Degrees in Liberal Arts and in Pure Science. There is a separate Announcement for the School of Commerce.)

Faculty of Medicine

Faculty of Medicine Postgraduate Courses

Faculty of Dentistry

Faculty of Engineering (Degrees in Engineering and in Architecture.)

Faculty of Law

Faculty of Music

Faculty of Divinity

Faculty of Graduate Studies and Research

School of Commerce

Institute of Education

Library School

School for Graduate Nurses

School of Physical and Occupational Therapy

School of Social Work

Macdonald College (Faculty of Agriculture and School of Household Science.)

French Summer School

Extension Courses

The Directory of Staff (University administrative officers, standing committees, and officers of instruction. Limited distribution.)

The Calendar (Available for distribution only to libraries and officials of certain institutions.)

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Faculty and Conservatorium of Music

ADMINISTRATIVE OFFICERS

- F. CYRIL JAMES, Chevalier de la Légion d'Honneur, B.Com., M.A., Ph.D., D.Sc., D. de l'U., D.C.L., LL.D., F.R.S.C. *Principal*
- DAVID L. THOMSON, B.Sc., M.A. (Aberdeen), Ph.D. (Cantab.), D.Sc. (Colby and McMaster), LL.D. (Aberdeen and Middlebury), F.C.I.C., F.R.S.C. *Vice-Principal*
- MARVIN DUCHOW, Mus.B., B.A. (N.Y.U.), M.A. (Rochester) *Dean of the Faculty and Director of the Conservatorium of Music*
- JACK WAUD, L.Mus., Mus.B. *Secretary of the Faculty*
- J. H. HOLTON, B.Com. (Toronto) *Secretary of the Board of Governors*
- G. A. GRIMSON, B.Com. *Comptroller*
- COLIN M. McDUGALL, D.S.O., B.A. *Registrar*

MEMBERS OF THE FACULTY

- The Dean
- The Principal
- The Vice-Principal
- H. N. FIELDHOUSE, B.A. (Oxon.), M.A. (Sheffield), F.R.S.C. *Dean of the Faculty of Arts and Science*
- HELMUT BLUME, Mus.B. (Berlin) *Chairman, Department of Keyboard and Vocal Music*
- ALEXANDER BROTT, L.Mus. *Chairman, Department of Orchestral Instruments*
- F. K. HANSON, Mus.D. *Professor of Education (Music) in the School for Teachers*

All communications should be sent to the Secretary of the Faculty of Music, McGill University, Montreal, Que.

TEACHING STAFF OF THE FACULTY AND CONSERVATORIUM OF MUSIC

DEPARTMENT OF THEORY

Professor

Associate Professors

Assistant Professor

Instructors

THE DEAN, *Chairman*

HELMUT BLUME

ALEXANDER BROTT

ISTVAN ANHALT

SHIRLEY BYERS

KELSEY JONES

RIA HEYNINX-LENSSENS

KENNETH MEEK

ALICE POSTNER

DEPARTMENT OF KEYBOARD AND VOCAL MUSIC

Associate Professor

Instructors

HELMUT BLUME, *Chairman*

PIANO

ELLEN BALLON (Master Class)

EVA BALTAS

SHIRLEY BYERS

MARY CORISH

ELIZABETH DAWSON

LAWRENCE DENNIS

ROSE GOLDBLATT

EDNA MARIE HAWKIN

LUBKA KOLESSA

SAMUEL LEVITAN

GIAN LYMAN

KENNETH MEEK

DOROTHY MORTON

PHILLIPS MOTLEY

CHARLES REINER

JAMES B. SPEIRS

LUBOMYRA ZUK

ORGAN

GEORGE LITTLE

GIAN LYMAN

KENNETH MEEK

PHILLIPS MOTLEY

HARPSICHORD

KELSEY JONES

SINGING

BERNARD DIAMANT

RIA HEYNINX-LENSSENS

JEAN L. MILLAR

EDITH DELLA PERGOLA

LUCIANO DELLA PERGOLA

OPERA CLASSES

BERNARD DIAMANT

RIA HEYNINX-LENSSENS

JEAN L. MILLAR

EDITH DELLA PERGOLA

LUCIANO DELLA PERGOLA

GILLES POTVIN

CHOIRMASTER'S TRAINING

GEORGE LITTLE

PEDAGOGY

EDNA MARIE HAWKIN

KENNETH MEEK

JEAN L. MILLAR

GIFFORD MITCHELL

CONSERVATORIUM CHOIR

GEORGE LITTLE

TEACHING STAFF

DEPARTMENT OF ORCHESTRAL INSTRUMENTS

Associate Professor

ALEXANDER BROTT, *Chairman*

Instructors

	VIOLIN	
HYMAN BRESS		KENNETH PERKINS
ARTHUR GARAMI		D'ARCY SHEA
EDWARD KUDLAK		
	VIOLA	
OTTO JOACHIM		LUCIEN ROBERT
STEPHEN KONDAKS		
	CELLO	
LOTTA BROTT		YVETTE LAMONTAGNE
WALTER JOACHIM		
	DOUBLE BASS	
ROGER CHARBONNEAU		NATALIE CLAIR
	FLUTE	
HERVE BAILLARGEON		MARIO DUSCHESNES
	RECORDER	
MARIO DUSCHESNES		
	OBOE	
MELVIN BERMAN		ARTHUR ROMANO
REAL GAGNIER		
	ENGLISH HORN	
ARTHUR ROMANO		
	SAXOPHONE	
ARTHUR ROMANO		
	CLARINET	
RALPH MASELLA		
	BASSOON	
RUDOLPH MASELLA		
	TRUMPET	
GEORGE JONES		ARNOLD MACLAUGHLAN
JACQUES LECOMTE		
	FRENCH HORN	
JOSEPH MASELLA		
	TROMBONE AND TUBA	
JOSEPH BELL		JOSEPH ZUSKIN
	HARP	
DOROTHY WELDON		
	PERCUSSION	
LOUIS CHARBONNEAU		MICHEL PERREAULT
	PEDAGOGY	
ALEXANDER BROTT AND STAFF		
CHAMBER MUSIC AND CONSERVATORIUM ORCHESTRA		
ALEXANDER BROTT		

SCHOOL MUSIC CLASSES

Professor

FRANK HANSON

FACILITIES

The McGill Faculty and Conservatorium of Music is situated near the main campus. Facilities include a number of practice and teaching studios with piano, and one studio with small organ, all of which may be used both by regular and partial students at a nominal charge. A studio equipped with tape recorder, microphone, and instrument panel, is primarily intended for the use of radio classes, but is also available to advanced instrumental and vocal students for instructional purposes. A small undergraduate music library comprises: (a) record collections donated by the Carnegie Foundation, the London Gramophone Corporation, and the British Council; (b) a representative collection of standard chamber music, orchestral, choral and piano scores, as well as a nucleus of historical editions and a reference shelf.

For the presentation of senior student recitals, orchestral and choral concerts, special lectures, and similar events, the Faculty of Music enjoys the use of nearby Redpath and Moyse Halls, both of which are located on the main campus. The music section of Redpath Library, which is also located on the main campus, offers additional valuable resources to the students of the Faculty of Music. There the student will find a moderately large miscellaneous collection embracing such fields as musical biography, history, theory, aesthetics, and other subjects, as well as the noteworthy Donalda Collection of nineteenth century operatic scores.

The Conservatorium of Music holds periodic junior student recitals. Events planned by the Faculty and Conservatorium for the session of 1960-61 are: (a) a series of Campus Concerts held fortnightly on Mondays between 1 and 2 p.m., featuring senior students; (b) a series of Faculty Recitals; (c) operatic performances. The Faculty of Music also sponsors a series of public lectures by eminent authorities on subjects of specialized, as well as of more popular, interest.

SCHOLARSHIPS AWARDED

Hamilton Prize	{ AGNES GORDON NICHOLAS DEUTSCH
Donalda Prize	{ SARA HAYDEN DENISE MARTINEAU
Willis Prize	JOHN MACKAY
Ballon Scholarship	ERIC PACI
Peterson Scholarship	{ LYSE BAZINET MICHAEL CARPENTER KENNETH ASCH RICHARD COHEN BILLY FERGUSON HARRIS

SCHOLARSHIPS

MacDonald Scholarship

{ ISOBEL CLOWES
ANNE BONATHAN
RITA ST. JEAN
FLORINCE BROWN
SVETLAND RAJEWSKY

Magor Scholarship

{ GERRIT TETENBURG
CHARLES PALMER

SCHOLARSHIPS AND BURSARIES

Details of Scholarships and Bursaries will be found in the Scholarships, Bursaries, Prizes and Medals Announcement, issued by the University and obtainable at the Registrar's Office.

GENERAL STATEMENT

The McGill Faculty and Conservatorium of Music provide instruction in both the practical and theoretical fields of music. Faculty and Conservatorium, while sharing staff and facilities in common, maintain their distinctive functions and internal structure.

FACULTY

The Faculty of Music offers a four-year course of instruction leading to the degree of Bachelor of Music (Mus. B.). The programme of studies provides for specialization in the following fields:

- (a) *Composition*
- (b) *Performance*
- (c) *School Music*

Candidates for the Mus. B. degree in Composition share a large number of theoretical courses with those in the remaining fields of specialization during the first and second years. More intensive theoretical training is reserved for the third and fourth years of the Composition programme.

In the field of Performance, candidates may qualify for the Mus. B. degree in any one of five programmes of study:

- I Piano
- II Organ
- III Stringed or Orchestral Instruments
- IV Voice A (Concert: Lied — Oratorio)
- V Voice B (Opera)

A Professional Instructors' course is available as an option in the third and fourth years of Piano, Organ, and Stringed Instruments (Violin, Viola, Cello only), and in the second, third, and fourth years of Voice. For further particulars refer to page 2124.

The music courses required for the Mus. B. degree in School Music are concentrated in the first three years of study. The fourth year, designated School for Teachers, is taken at Macdonald College. It comprises the complete programme of education courses required for the degree.

Available to all degree candidates are a large number of ensemble and fourth year elective courses in the following fields:

- Chamber Music
- Choir
- Choirmasters' Training (Choral Conducting and Church Choral Music)
- Collegium Musicum
- Musicology
- Opera (Acting, Staging, Coaching)
- Orchestra
- Pedagogy
- Piano Accompaniment
- Piano Ensemble

GENERAL STATEMENT

A selected group of these courses forms a part of each required curriculum.

As previously noted, considerable emphasis is placed upon the theoretical and historical aspects of music study in each of the three fields of specialization. Important as a basis for expert musicianship, this training is equally valuable as an intellectual and humanistic discipline. It also facilitates transference from one to another field of specialization in that it calls for a large common segment of courses in the first and in the second year. An academic continuation course also forms part of the Mus. B. curriculum

CONSERVATORIUM

The McGill Conservatorium of Music comprises a Senior and a Junior Department. In addition to its function as an institution offering courses of musical instruction, the McGill Conservatorium exists as an examining body holding annual examinations in both practical and theoretical subjects at various local centres throughout the Dominion.

SENIOR DEPARTMENT

The Senior Department of the McGill Conservatorium offers courses of instruction leading to the diploma of Associate in Music (A. Mus.), and to that of Licentiate in Music (L. Mus.). The diploma of Associate is awarded at the conclusion of the first year of study; that of Licentiate at the conclusion of the third.

The diplomas of Associate and Licentiate are available in the field of Performance only. Candidates may qualify in any one of the five instrumental or vocal areas open to Mus. B. candidates in that field. The curriculum of studies leading to these diplomas differs from that of the degree course in Performance in that it permits maximum concentration upon practical studies with lesser emphasis upon theoretical subjects. An ensemble requirement is included in both the first and second years of the Licentiate course.

JUNIOR DEPARTMENT

Information pertaining to the Junior Department of the Conservatorium will be found on page 2163 following.

LOCAL CENTRES

Information pertaining to the Local Centre examinations will be found on pages 2163 and 2164.

ADMISSIONS

All applications for admission to the Faculty or the Conservatorium of Music must be directed to the Secretary of the Faculty of Music, McGill University, 4326 McTavish St., Montreal, Que. (Tel: Victor 4-6311, Local 482.)

ADMISSION REQUIREMENTS

FACULTY

In order to qualify for admission to the Faculty of Music, the candidate must pass (that is, obtain a minimum of fifty per cent) in each of the ten McGill School Certificate examinations listed below, and must achieve an average mark of sixty-five per cent in the ten examinations combined.

Matriculation Subject	Number of Papers
English	2
General History	1
Language — One of the following: French, German, Spanish, Latin, Greek.....	2
Elementary Algebra or Geometry	1
Music — Practical: Instrument or Voice 9 for candidates seeking admission to the Mus. B. programme in either Composition or School Music; Instrument or Voice 11 for Mus. B. in Performance — Theoretical: Theory 9	1
Electives — Three of the following: Biology, Botany, Chemistry, Art, Geography, Physics, Intermediate Algebra, Trigonometry, Canadian History or British History, a foreign language not already chosen.....	3

CONSERVATORIUM (SENIOR DEPARTMENT)

Requirements for admission to the first (Associate) year of the Senior Department are:

Academic Subjects: High School Leaving Examinations. (N.B. North American Literature is available as an elective to candidates who wish to qualify for admission to the Associate course.)

Musical Subjects: — Practical Instrument or Voice 11
— Theoretical: Theory 9

The requirement for admission to the second (first Licentiate) year of the Senior Department is the diploma of Associate in Music.

TRANSFER OF CREDITS — AUDITIONS

FACULTY AND CONSERVATORIUM (SENIOR DEPARTMENT)

Applicants with music credits from other universities or music schools must submit an official transcript of their record on or before September 1st. Also required is an audition in the practical subject. Auditions are held during the second and third weeks of September.

CLASSES OF STUDENT—EXAMINATIONS

CLASSES OF STUDENT

FACULTY AND CONSERVATORIUM (SENIOR DEPARTMENT)

Students are registered as:

- (a) **Regular Undergraduates.** These are students who have the complete requirements for admission to either the Faculty or the Senior Department of the Conservatorium, and who are following the regular programme of studies of their year towards either the Mus. B. degree or the diplomas of A. Mus. or L. Mus.
- (b) **Limited Undergraduates.** These are students who have the complete requirements for admission to either the Faculty or the Senior Department of the Conservatorium but who, because of ill-health or other circumstance, are unable to complete their degree work in the required number of years. Such students may, with the Dean's permission, extend their course beyond the required period, but must complete it within: (a) eight years for the Mus. B., (b) six years for the L. Mus.
- (c) **Partial Students.** These are students who are not registered as proceeding to a degree or diploma, but who are permitted to take one or more courses. Partial students in practical subjects may not register for less than one term, and must notify the Secretary at least two weeks before the end of the term if they wish to discontinue lessons.

EXAMINATIONS

FACULTY AND CONSERVATORIUM (SENIOR DEPARTMENT)

Sessional Examinations

Final sessional examinations in all theoretical subjects are held in late April and early May. Examinations in all practical subjects take place during the first three weeks of May.

Deferred Examinations

Deferred practical examinations are permitted only in case of illness or other exceptional circumstances. A written request for the deferment of examination must be submitted to the Dean.

Supplemental Examinations

Students who have failed to obtain the passing grade of 60% in any written examination have the choice of: (a) passing a supplemental examination in that subject in the fall; (b) repeating the course.

CLASSIFICATION OF MARKS

FACULTY AND CONSERVATORIUM (SENIOR DEPARTMENT)

100—85%	.....First Class
84—70%	.....Second Class
69—60%	.....Third Class
Below 60%	.....Failure

MUSIC

F E E S

TUITION FEES

N.B. The University reserves the right to make changes without notice in the published scale of fees if, in the opinion of the Board of Governors, circumstances so require

FACULTY AND CONSERVATORIUM (SENIOR DEPARTMENT)

Regular Students: The fee for the course leading to the Mus. B. degree varies according to the field of specialization selected. The fees are as follows:

Mus. B. in Composition	\$450 per session
" " " Performance	550 " "
" " " School Music, (First, Second, and Third Years)	450 " "
" " " School Music (Fourth Year)— Consult special announcement of Institute of Education.	

Fees for courses leading to the diplomas of Associate and Licentiate in Music are as follows:

A. Mus.	\$400 per session
L. Mus.	425 " "

The annual fees for regular students also cover fees for the degree or diploma examinations at the end of the session, as well as fees for library and athletic privileges, the latter including required Physical Education, Student Health Service, and admission to home games under the control of the Athletics Board, except those of the senior football and hockey teams.

The above fees include the student activity fee of \$15.

Limited Undergraduate and Partial Students. Fees for individual courses in either the Faculty of Music or the Senior Department of the Conservatorium are as follows:

ENSEMBLE COURSES:

Orchestra and Choir	no fee
Piano Accompaniment	\$75 per session
Repertory Coaching	75 " "
All other ensemble courses	50 " "

ELECTIVE COURSES:

Radio Composition	\$90 per session
Organ Repertoire	75 " "
Piano Repertoire	75 " "
All other elective courses	50 " "

THEORETICAL COURSES:

Aural Training, Harmony, and History and Analysis	\$90 per session
Composition, Conducting, Counterpoint, and Orchestration	50 " "

FEES — ATTENDANCE REGULATIONS

PRACTICAL COURSES:

Piano, Organ, Harpsichord, Voice, Violin, Viola, and Cello	\$288 per session
All other instruments	216 " "

NOTE: Tuition fees pertaining to courses in the Junior Department of the Conservatorium are listed on page 2165.

EXAMINATION FEES

FACULTY AND CONSERVATORIUM (SENIOR DEPARTMENT)

Examination fees for Limited Undergraduates and for Partial Students are \$10 for each theoretical and \$15 for each practical examination.

(NOTE: Examination fees pertaining to courses in the Junior Department of the Conservatorium are listed on page 2165.)

DATES OF PAYMENT:

TUITION FEES

The University does not issue bills for fees. Fees are due and payable at the Chief Accountant's Office between the hours of 9 a.m. and 4 p.m. (Saturday 9 a.m. to 11 a.m.) on or before October 1st.

Remittance may be made by mail in which case cheques or money orders should be made payable to McGill University, and addressed to the Cashier, Accounting Department, McGill University, Montreal 2, P.Q.

Fees may be paid in two instalments, one at the beginning of the session, the other not later than January 15th. In such cases, the instalment fee of \$5 is charged.

Special fees and penalties for late payment are shown in the General Information pamphlet which accompanies this announcement.

EXAMINATION FEES

All examination fees, including those for local centre examinations, must be paid in advance to the Secretary of the Faculty of Music, McGill University. In the case of local centre examinations, forms of application duly filled in by the candidate and accompanied by the examination fee must reach the Secretary in Montreal on or before April 1st.

ATTENDANCE REGULATIONS

1. All students are required to be punctual at all classes and lessons.
2. The attendance register must be signed by the student after each lesson in a practical subject.
3. Lessons in practical subjects missed in consequence of the instructor's absence will be made up at the mutual convenience of instructor and pupil. Lessons missed in consequence of the pupil's absence will be made up only if notice of cancellation has been given forty-eight hours in advance, or if a doctor's certificate is produced.

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4. A maximum of unexcused absences comprising one-eighth of the total number of lectures will be permitted in any given degree or diploma course. Excuses for absence in excess of that number must be submitted to the Dean. These will be found acceptable only on grounds of illness (in which case a proper medical certificate is required), or in similar warranted circumstances. Unexcused absences in excess of the number allowed will result in the loss of examination privilege.

PROGRAMME OF STUDIES IN THE FACULTY OF MUSIC MUS.B. DEGREE IN COMPOSITION

CURRICULUM:

FIRST YEAR	SUBJECT	HOURS PER WEEK
	Harmony 101	3
	Aural Training 101	3
	History and Analysis 101	4
	Composition 101	1
	Conducting 101	1
	Acoustics	1
	Practical	1/2
	Ensemble	2
	Academic	3
		18 1/2
SECOND YEAR	Harmony 201	3
	Aural Training 201	3
	History and Analysis 201	4
	Composition 201	1
	Counterpoint 201	1
	Practical	1/2
	Ensemble	2
	Academic	3
		17 1/2
THIRD YEAR	Harmony 301	3
	Aural Training 301	3
	History and Analysis 301	4
	Composition 301	1
	Counterpoint 301	1
	Orchestration 301	1
	Practical	1/2
	Ensemble	2
	Academic	3
		18 1/2
FOURTH YEAR	Harmony 401	2
	Composition 401	1
	Counterpoint 401	1
	Orchestration 401	1
	Ensemble	2
	Academic	3
	Electives	3
		13

MUS.B. (COMPOSITION) CURRICULUM

PRACTICAL REQUIREMENT

The practical requirement for the Mus.B. degree in Composition is the grade 11 certificate of the Junior Department of the Conservatorium in the practical subject (instrument or voice) in which the candidate had qualified for admission. In those cases where the subject is other than piano, Piano 7 is imposed as an additional practical requirement to be completed by the end of the second year.

ENSEMBLE REQUIREMENT

Two years of either Choir or Orchestra are obligatory for all candidates qualifying for the Mus.B. degree in Composition, and may be taken in any sequence during the four year course of studies. Two remaining years of these or any of the other ensemble courses listed on pages 2147 and 2162 serve to complete the requirement. The selection is to be made in consultation with the departmental chairman or the Dean.

ACADEMIC REQUIREMENT

To fulfill the academic requirement for the first Mus.B. year in Composition, the candidate is required to select one first year course from the list of academic courses tabulated on pages 2135 to 2137. Beginning in the second year, the candidate must follow a continuation sequence in a selected academic subject through the last three years of study. This sequence may be pursued in any subject of the candidate's choice selected from the above-mentioned list—whether the subject be that selected in the first year or some other.

FOURTH YEAR ELECTIVE REQUIREMENT

Fourth year elective courses are: Composition 402; History 401; History 402; History 403; Musicology 401. Any three courses may be selected in fulfilment of the elective requirement. In the case where Musicology 401 is selected, however, only one additional course is required.

COMPOSITION REQUIREMENT

In addition to the regular course requirements in composition, candidates in the fourth year must submit two original compositions to be received by the Secretary of the Faculty not later than the last day of the second week in April. One is to be an unaccompanied vocal work (not an anthem) showing considerable vocal resource; the other a work for strings, or combination of not less than four instruments or full orchestra. The works may be in any form and the instrumental composition should be of extended length. It should be noted that manuscripts, whether accepted or not, will not be returned to the candidate.

VIVA VOCE

Candidates in the fourth year are required to take a comprehensive oral examination covering the fields of theory, musical history, form, orchestration, and general repertory. Questions may also be asked concerning the compositions submitted by the candidate.

MUS.B. DEGREE IN PERFORMANCE

CURRICULA

Candidates may qualify for the Mus.B. in Performance in any one of five programmes of study, the curriculum for each of which is tabulated below. Special requirements for the respective programmes of study will be found on pages 2122 to 2124.

I. PIANO

FIRST YEAR	SUBJECT	HOURS PER WEEK
	Piano 101	1
	Harmony 101	3
	Aural Training 101	3
	History and Analysis 101	4
	Composition 101	1
	Conducting 101	1
	Acoustics	1
	Practical Second Subject	$\frac{1}{2}$
	Ensemble: Choir <i>or</i> Orchestra	2
	Piano Ensemble 101	1
	Piano Accompaniment 101	1
		<hr/> 11½
SECOND YEAR	Piano 201	1
	Harmony 201	3
	Aural Training 201	3
	History and Analysis 201	4
	Counterpoint 202	1
	Practical Second Subject	$\frac{1}{2}$
	Ensemble: Choir <i>or</i> Orchestra	2
	Piano Ensemble 201	1
	Piano Accompaniment 201	1
	Academic	3
		<hr/> 19½
THIRD YEAR	Piano 301 <i>or</i> 302	
	(Professional Instructor — see p. 2124)	1
	Harmony 301	3
	Aural Training 301	3
	History and Analysis 301	4
	Counterpoint 302	1
	Practical Second Subject	$\frac{1}{2}$
	Ensemble: Choir <i>or</i> Orchestra	2
	Chamber Music 301	
	<i>or</i>	
	Collegium Musicum 101	2
	Academic	3
		<hr/> 19½
FOURTH YEAR	Piano 401 <i>or</i> Piano 402	
	(Professional Instructor)	1
	Practical Second Subject	$\frac{1}{2}$
	Ensemble: Choir <i>or</i> Orchestra	2
	Chamber Music 401	
	<i>or</i>	
	Collegium Musicum 201	2
	Academic	3
	Electives	3
		<hr/> 11½

MUS.B. (PERFORMANCE) CURRICULA

II. ORGAN

FIRST YEAR

SUBJECT	HOURS PER WEEK
Organ 101	1
Harmony 101	3
Aural Training 101	3
History and Analysis 101	4
Composition 101	1
Conducting 101	1
Acoustics	1
Practical Second Subject	1/2
Ensemble: Choir or Orchestra	2
Collegium Musicum 101	2
	<hr/>
	18 1/2

SECOND YEAR

Organ 201	1
Harmony 201	3
Aural Training 201	3
History and Analysis 201	4
Counterpoint 202	1
Practical Second Subject	1/2
Ensemble: Choir or Orchestra	2
Collegium Musicum 201	2
Academic	3
	<hr/>
	19 1/2

THIRD YEAR

Organ 301 or Organ 302	
(Professional Instructor — see p. 2124)	1
Harmony 301	3
Aural Training 301	3
History and Analysis 301	4
Counterpoint 302	1
Practical Second Subject	1/2
Ensemble: Choir or Orchestra	2
Choral Conducting 301	1
Church Choral Music 301	1
Academic	3
	<hr/>
	19 1/2

FOURTH YEAR

Organ 401 or Organ 402	
(Professional Instructor)	1
Practical Second Subject	1/2
Ensemble: Choir or Orchestra	2
Choral Conducting 401	1
Church Choral Music 401	1
Academic	3
Electives	3
	<hr/>
	11 1/2

III. STRINGED AND OTHER ORCHESTRAL INSTRUMENTS

Candidates may qualify for the Mus.B. degree in the present programme of study in any one of the following instruments as principal practical subject.

Violin	Flute	Trumpet	Harp
Viola	Oboe (English Horn)	French Horn	Percussion
Cello	Clarinet	Trombone (Tuba)	
Double Bass	Saxophone		
	Bassoon		

The instrument selected must be that wherein the candidate qualified for admission. It is to be followed in a continuation sequence throughout the four years of study — as indicated under "Instrument" in the ensuing curriculum tabulation.

MUSIC

FIRST YEAR	SUBJECT	HOURS PER WEEK
	Instrument — 101	1
	Harmony 101	3
	Aural Training 101	3
	History and Analysis 101	4
	Composition 101	1
	Conducting 101	1
	Acoustics	1
	Practical Second Subject	1½
	Ensemble: Choir or Orchestra	2
	Chamber Music 101	2
		18½
SECOND YEAR	Instrument — 201	1
	Harmony 201	3
	Aural Training 201	3
	History and Analysis 201	4
	Counterpoint 202	1
	Second Practical Subject	1½
	Ensemble: Choir or Orchestra	2
	Chamber Music 201	2
	Academic	3
		19½
THIRD YEAR	Instrument — 301 or 302	1
	(Professional Instructor — see p. 2124)	3
	Harmony 301	3
	Aural Training 301	3
	History and Analysis 301	4
	Counterpoint 302	1
	Practical Second Subject	1½
	Ensemble: Choir or Orchestra	2
	Chamber Music 301	2
	Academic	3
		19½
FOURTH YEAR	Instrument — 401 or 402	1
	(Professional Instructor — see p. 2124)	1½
	Practical Second Subject	2
	Ensemble: Choir or Orchestra	2
	Chamber Music 401	2
	Academic	3
	Electives	3
		11½
IV. VOICE A (CONCERT: ORATORIO — LIED)		
FIRST YEAR	SUBJECT	HOURS PER WEEK
	Voice A 101	1
	Harmony 101	3
	Aural Training 101	3
	History and Analysis 101	4
	History 101	1
	Composition 101	1
	Conducting 101	1
	Acoustics	1
	Practical Second Subject	1½
	Ensemble: Choir or Orchestra	2
	Language 101	1
		18½
SECOND YEAR	Voice A 201 or Voice 202	1
	(Professional Instructor — see p. 2124)	3
	Harmony 201	3
	Aural Training 201	3
	History and Analysis 201	4
	Counterpoint 202	1
	Practical Second Subject	1½
	Ensemble: Choir or Orchestra	2
	Collegium Musicum	2
	Academic	3
		19½

MUS.B. (PERFORMANCE) CURRICULA

THIRD YEAR

Voice A 301 or Voice 302 (Professional Instructor)	1
Harmony 301	3
Aural Training 301	3
History and Analysis 301	4
Counterpoint 302	1
Practical Second Subject	1/2
Ensemble: Choir or Orchestra	2
One of the following:	
Piano Ensemble 101	
Chamber Music 301	
Church Choral Music 301	2
Academic	3

19 1/2

FOURTH YEAR

Voice A 401 or Voice 402 (Professional Instructor)	1
Practical Second Subject	1/2
Ensemble: Choir or Orchestra	2
One of the following:	
Piano Ensemble 201	
Piano Accompaniment 201	
Chamber Music 401	
Church Choral Music 401	2
Academic	3
Electives	3

11 1/2

V. VOICE B (OPERA)

FIRST YEAR

SUBJECT	HOURS PER WEEK
Voice B 101	1
Harmony 101	3
Aural Training 101	3
History and Analysis 101	4
History 101	1
Composition 101	1
Conducting 101	1
Acoustics	1
Practical Second Subject	1/2
Ensemble: Choir or Orchestra	2
Language 101	1

18 1/2

SECOND YEAR

Voice B 201	1
Harmony 201	3
Aural Training 201	3
History and Analysis 201	4
Counterpoint 202	1
Practical Second Subject	1/2
Ensemble: Choir or Orchestra	2
Acting 201	1
Coaching 201	1
Academic (Language)	3

19 1/2

THIRD YEAR

Voice B 301	1
Harmony 301	3
Aural Training 301	3
History and Analysis 301	4
Counterpoint 302	1
Practical Second Subject	1/2
Ensemble: Choir or Orchestra	2
Coaching 301	1
Staging 301	1
Academic (Language)	3

19 1/2

MUSIC

FOURTH YEAR

Voice B 401	1
Practical Second Subject	$\frac{1}{2}$
Ensemble: Choir or Orchestra	2
Coaching 401	1
Staging 401	1
Academic (Language)	3
Electives	3
	<hr/>
	11½

SECONDARY PRACTICAL REQUIREMENT

The selection of the secondary practical subject is to be made from the list of practical subjects offered in the Junior Department of the Conservatorium. This list appears on pages 2167-8. Non-pianists may select as their secondary practical subject: (a) piano, or (b) an instrument (not their own) other than piano. Students for whom piano is neither a principal nor a secondary subject must complete Piano 7 as an additional requirement.

All candidates selecting for their secondary practical requirement a subject in which they have had previous training must submit to an audition in which their grade level will be appraised. The degree requirement for any secondary subject is normally three grades beyond that at which the candidate was evaluated at the time of admission. The minimum grade imposed for the completion of the secondary practical requirement is 9; the maximum 201.

ENSEMBLE REQUIREMENT

Regular attendance at either Choir or Orchestra in each of the four years is obligatory for all candidates for the Mus.B. degree in Performance. The remaining ensemble requirement varies with each of the five programmes of study available in this field. The specific ensemble requirements for each of these programmes are indicated in the preceding curricula. Where options are provided, admission to these is conditional upon the consent of the departmental chairman or the Dean. Substitution of other optional ensemble courses will be considered in special cases.

ACADEMIC REQUIREMENT

Mus.B. students in the field of Performance will commence their academic course in the second year. This course is to be selected from the list of subjects given on pages 2135-7, and is to be followed in a continuation sequence through the last three years of study.

FOURTH YEAR ELECTIVE REQUIREMENT

The following are available as Fourth Year elective courses:

Composition	402
History	401
"	402
"	403
Musicology	401
Pedagogy	401
"	402
"	403
"	404

MUS.B. (PERFORMANCE) REQUIREMENTS

Instrumental Class	101}	(Available as special elective pedagogy courses to candidates whose principal practical subject is an orchestral wind instrument.)
"	201}	
Instrumental Class	301	(Available as a special elective pedagogy course to candidates whose principal practical subject is double bass.)

Any three courses may be selected in fulfillment of the elective requirement. In the case where Musicology 401 is selected, however, only one additional course is required.

SPECIAL REQUIREMENTS FOR PRACTICAL EXAMINATIONS

I. PIANO

- (a) *Sight-Reading.* The sight-reading requirements for all piano examinations will be of not greater difficulty than the prepared work of the previous examination.
- (b) *Transposition.* Piano 101 calls for the transposition of a simple piece either a semi-tone up or down; Piano 201 calls for transposition at whole tone up or down.

II. ORGAN

- (a) *Sight-Reading.* The sight-reading requirements for all organ examinations will be of not greater difficulty than the prepared work of the previous examination. An additional sight-reading test given at all organ examinations calls for the ability to read from four-part open score. In the case of Organ 101 and 201 only G and F clefs are used; the latter grade demands, however, a greater degree of sight-reading proficiency on the part of the candidate. The sight-reading tests for the subsequent organ examinations call for a knowledge of G, F, and C clefs with again a greater degree of sight-reading proficiency demanded in the fourth year.

- (b) *Transposition.* The transposition requirements for organ are as follows:

Grade	Interval of Transposition
Organ 101	semi-tone up or down
" 201, 302	whole tone up or down
" 301, 402	third up or down
" 401	at any interval

- (c) *Extemporization.* The requirements for the extemporization tests in the various organ examinations are as follows:

Grade	Requirements
Organ 101	Extemporization on a short motive
" 201	" " " " theme
" 301, 302	" " " " theme
" 401, 402	" " " " two themes

III. ORCHESTRAL INSTRUMENTS

- (a) *Sight-Reading.* The sight-reading requirements for examinations in strings and in the remaining orchestral instruments consist of the reading of orchestral excerpts. The 101 examination in these subjects calls for three excerpts selected by the candidate as well as three selected by the examiner. In the case of the 201 examination, four excerpts of advanced difficulty are to be selected each by candidate and examiner, while an unspecified number is called for in the 301, 302, and 402

examinations. The sight-reading requirement is dropped in the fourth year (401) examination.

- (b) *Transposition.* The transposition requirements for the various wind instruments will be found in the description of course contents for the respective instruments. (See pages 2157 to 2160.)

IV. VOICE A & B

Sight-Reading. Examples of sight-reading exercises for voice examinations are issued in booklet form by the McGill Conservatorium and may be obtained by writing to the Secretary of the Faculty of Music.

SPECIAL ELECTIVE REQUIREMENT FOR PROFESSIONAL INSTRUCTORS

Candidates for the Mus.B. degree in Performance whose principal practical subject is piano, organ, or voice, and who have in their third and fourth years chosen to follow the available professional instructors' courses (302, 402) in these fields must include the corresponding pedagogy course in their list of fourth year electives. In the field of orchestral instruments the professional instructors' course is available only in violin, viola and cello. The following table makes clear the elective course required in each of the above-mentioned cases:

Professional Instructors' Course	Required Elective
Piano 302, 402	Pedagogy 402
Organ 302, 402	" 403
Voice 302, 402	" 404
Violin, Viola, Cello 302, 402	" 401

Candidates specializing in orchestral instruments other than violin, viola, or cello, and with the exception of harp and percussion, may, while following the regular performers' course of their instrument in the third and fourth years, choose Instrumental Class 101, 201, or 301 as special pedagogy electives in the fourth year. (See above: **FOURTH YEAR ELECTIVE REQUIREMENT.**)

SPECIAL LANGUAGE REQUIREMENT FOR STUDENTS QUALIFYING IN VOICE A & B

Degree candidates in Voice A or Voice B must fulfil a special language requirement in: (a) French, (b) German, and (c) Italian. Two of these language requirements are to be satisfied by: (1) the matriculation language requirements, and (2) the academic continuation course. Language 101, which is taken in the first year, serves to complete this requirement.

VIVA VOCE

All candidates for the degree of Mus.B. in Performance are required to take a comprehensive oral examination in the final year. This examination will include questions on musical history, form, and general repertory. Candidates will also be questioned on the pieces performed by them in their final practical examination, and on the history and repertory of their particular instrument. Candidates specializing as professional instructors will also be questioned on technical and musical problems involved in the teaching of their instrument, and will be expected to demonstrate a first-hand knowledge of the teaching repertory for that instrument.

MUS.B. (SCHOOL MUSIC) REQUIREMENTS

MUS.B. DEGREE IN SCHOOL MUSIC

CURRICULUM

FIRST YEAR

SUBJECT	HOURS PER WEEK
Harmony 101	3
Aural Training 101	3
History and Analysis 101	4
Composition 101	1
Conducting 101	1
Vocal Physiology and Choral Techniques 101	2
Instrumental Class 101	1
Practical First Subject 10	1
Practical Second Subject	1½
Acoustics	1
Ensemble	2

19½

SECOND YEAR

SUBJECT	HOURS PER WEEK
Harmony 201	3
Aural Training 201	3
History and Analysis 201	4
Counterpoint 202	1
Instrumental Class 201	1
Orchestration 202	1
Practical First Subject 11	1
Practical Second Subject	1½
Ensemble	2
Academic	3

19½

THIRD YEAR

Harmony 301	3
Aural Training 301	3
History and Analysis 301	4
Counterpoint 302	1
Instrumental Class 301	1
Orchestration 302	1
Practical First Subject 101	1
Practical Second Subject	1½
Ensemble	2
Academic	3

19½

FOURTH YEAR

"Institute of Education" (Please refer to page 2134.)

PRINCIPAL PRACTICAL REQUIREMENT

Candidates for the Mus.B. degree in School Music may qualify for admission in piano, a string, woodwind, or brasswind instrument, or in voice. The degree requirement is the 101 course in the practical subject in which the candidate qualified for admission.

SECONDARY PRACTICAL REQUIREMENT

This requirement is the same as that for the Mus.B. degree in Performance. Please refer to page 2122.

ENSEMBLE REQUIREMENT

Candidates for the Mus.B. degree in School Music are required to take ensemble courses in all but the last year of their programme of studies. Two years of either Choir or Orchestra together with an approved ensemble course of the candidate's choice in the remaining year constitute the requirement in this subject.

MUSIC

ACADEMIC REQUIREMENT

This requirement is the same as that for the Mus.B. degree in Performance. Please refer to page 2122.

ELECTIVE REQUIREMENT

There is no fourth year elective requirement for the Mus.B. degree in School Music.

SPECIAL REQUIREMENTS AT PRACTICAL EXAMINATIONS

The sight-reading and transposition requirement are the same as those for the A.Mus. examination in the practical subject (orchestral instrument or voice) in which the candidate is qualifying for the degree. Please refer to page 2127.

EDUCATION REQUIREMENT

The programme of education courses called for in the fourth year is given at Macdonald College in the Institute of Education. These courses satisfy the education requirement for the Mus.B. degree in School Music. Please refer to page 2134.

PROGRAMME OF STUDIES IN THE CONSERVATORIUM OF MUSIC—SENIOR DEPARTMENT

CURRICULUM

A.MUS.

SUBJECT	HOURS PER WEEK
Practical First Subject: Instrument — 110	1
or Voice — 110 (A or B)	
Harmony 101	3
History and Analysis 101	4
	<hr/>
	8

L.MUS.

FIRST YEAR

SUBJECT	HOURS PER WEEK
Practical First Subject: Instrument — 210	1
or Voice 210 (A or B)	
Practical Second Subject	$\frac{1}{2}$
Aural Training 101	3
Composition 101	1
Ensemble	4
	<hr/>
	9½

SECOND YEAR

Practical First Subject: Instrument — 310	1
or Voice 310 (A or B)	
Practical Second Subject	$\frac{1}{2}$
Conducting 101	1
Acoustics	1
Ensemble	4
	<hr/>
	7½

SPECIAL REQUIREMENTS FOR PRACTICAL EXAMINATIONS IN THE ASSOCIATE AND LICENTATE COURSES

I. PIANO

- (a) *Sight-Reading.* The sight-reading requirements for all piano examinations will be of not greater difficulty than the prepared work of the previous examination.
- (b) *Transposition.* Piano 110 calls for the transposition of a simple piece a semi-tone up or down; Piano 210 calls for transposition a whole tone up or down.

II. ORGAN

- (a) *Sight-Reading.* The sight-reading requirements for the organ examinations will be of not greater difficulty than the prepared work of the previous examination. An additional sight-reading test given at all Senior Conservatorium examinations in organ calls for the ability to read from four-part open score. In the case of Organ 110 only the G and F clefs will be used. The sight-reading tests for Organ 210 and 310 call for a knowledge of G, F, and C clefs, with a greater degree of sight-reading proficiency expected in the latter course.

- (b) *Transposition.* The transposition requirements for organ are as follows:

Grade	Interval of Transposition
Organ 110	— semi-tone up or down
" 210	— whole tone up or down
" 310	— third up or down.

- (c) *Extemporization.* The requirements for the extemporization tests are as follows:

Grade	Requirements
Organ 110	— extemporization on a short motive
" 210	— " " " theme
" 310	— " " two themes.

III. VOICE A & B

Sight-Reading. The sight-reading requirements for voice examinations will be of not greater difficulty than the prepared work of the previous examination.

IV. ORCHESTRAL INSTRUMENTS

Sight-Reading. The sight-reading requirements for examinations in strings and in the remaining orchestral instruments consist of the reading of orchestral excerpts. The 110 examination in these subjects call for three excerpts which are to be selected by the candidate as well as three to be selected by the examiner. In the case of the 210 examination, four excerpts of advanced difficulty are to be selected each by candidate and examiner. The sight-reading requirement is dropped in the final examination (310).

MUSIC

SECONDARY PRACTICAL REQUIREMENT FOR THE DIPLOMA OF LICENTIATE IN MUSIC

This requirement is the same as that for the degree of Mus.B. in Performance, save that two rather than three grades beyond that of admission are required. Please refer to page 2122.

ENSEMBLE REQUIREMENT FOR THE DIPLOMA OF LICENTIATE IN MUSIC

Either Choir or Orchestra is obligatory for all diploma candidates in each of the Licentiate years.

Two hours of additional ensemble work is required in each of these years. The courses will be selected from among those listed as part of the Mus.B. curriculum in Performance in the instrumental or vocal field of the candidate's choice. The selection is to be made in consultation with the departmental chairman or the Dean.

SPECIAL LANGUAGE REQUIREMENT FOR LICENTIATE STUDENTS QUALIFYING IN VOICE A & B

Candidates for the Licentiate in either Voice A or B must fulfil a special language requirement in two of the following: (a) French, (b) German, (c) Italian. These language requirements are to be satisfied by: (1) the high school leaving language requirement; (2) Language 101 to be taken in the second year.

VIVA VOCE

Candidates for the diploma of Licentiate in Music are required to take an oral examination in the final year. Questions will be asked concerning musical history, form, and general repertory. Candidates will also be questioned on the pieces performed by them in their final practical examination, and on the history and repertory of their particular instrument.

(NOTE: For the Programme of Studies offered in the Junior Department of the Conservatorium, please refer to page 2166.)

COURSES OF INSTRUCTION IN THE FACULTY AND IN THE SENIOR DEPARTMENT OF THE CONSERVATORIUM

DEPARTMENT OF THEORY

REGULAR COURSES

AURAL TRAINING 101. Solfege studies in both major and minor keys. A reading knowledge of all clefs. Rhythmic dictation in simple and compound metres. Melodic dictation of moderately difficult major or minor melodies with simple modulations. Intervals and elementary harmonic dictation.

3 hours.

THEORETICAL COURSES

Texts: Champagne, *Solfège Pratique*; Gedalge, *L'enseignement de la musique*, vols. 1-3; McHose and Tibbs, *Sight-Singing Manual*; Danhauser & Lemoine, *Solfège des solfèges*; Samuel, *Quatre-vingt leçons mélodiques*.

AURAL TRAINING 201. Solfeggii in all keys and with changing clefs. Transpositional drills involving clef substitution. More advanced melodic dictations with particular emphasis upon modulating melodies. Elementary two- and four-part dictation.

3 hours.

Texts: Gedalge, *L'enseignement de la musique*; vols. 4-10; Danhauser & Lemoine, *Solfège des solfèges*; Samuel, *Quatre-vingt leçons mélodiques*.

AURAL TRAINING 301. Difficult solfeggii involving remote modulations, chromaticism, and changing clefs. Readings from the literature including excerpts from Bach, Wagner, Hindemith, etc. Advanced melodic and harmonic dictations, the latter in chorale, fugal and other styles.

3 hours.

COMPOSITION 101. Construction of motive, phrase, and sentence preceded by analysis of melodic, rhythmic, and harmonic structures. Elementary composition in small forms.

1 hour.

COMPOSITION 201. Composition in the smaller homophonic forms such as ternary, minuet and trio, variation form. Also composition over a ground bass. These works are to be written for piano, organ, voice, or solo instrument with piano accompaniment, or for small instrumental combinations. Particular attention will be given to the influence of the medium upon the tonal materials, the patterns of accompaniment, and the texture.

1 hour.

COMPOSITION 301. Composition in the smaller homophonic forms such as the variation, suite, sonatina, and sonata-allegro form. Composition in such contrapuntal forms as the invention, passacaglia and chaconne. Also composition of figured chorale preludes and of accompanied motets. Various wood-wind combinations as well as chamber orchestra are now added to the list of media employed in the preceding course.

1 hour.

COMPOSITION 401. A continuation of Composition 301 stressing the larger cyclical homophonic forms such as the sonata and the suite. The media employed include the orchestra as well as the more intimate instrumental combinations.

1 hour; 1 hour listening period.

COMPOSITION 402. See ELECTIVE COURSES.

MUSIC

CONDUCTING 101. A basic course in orchestral repertoire, incorporating the study of baton techniques, placement of beats in simple and compound metres, score reading, instrumental ranges, and orchestral devices. Records and scores will constitute the materials for instruction. Qualified students will occasionally be permitted to conduct the senior orchestra during rehearsal periods.

1 hour.

COUNTERPOINT 201. Sixteenth century counterpoint (strict and free) in two, three and four parts.

1 hour.

Texts: Jeppesen, Counterpoint.

COUNTERPOINT 202. Free Counterpoint.

1 hour.

COUNTERPOINT 301. A continuation of Counterpoint 201. A large-scale mass movement or motet is to be submitted at the close of the session. Also double counterpoint and canon, and free counterpoint in the style of Bach (inventions, etc.)

1 hour.

Texts: Jeppesen, Counterpoint; Prout, Double Counterpoint and Canon.

COUNTERPOINT 302. Free Counterpoint.

1 hour.

COUNTERPOINT 401. Fugue.

1 hour.

HARMONY 101. An elementary course in written and keyboard harmony comprising a study of the following harmonic materials and techniques: triads and dominant seventh chords in all dispositions and inversions; principles of chord progression; part-writing drills; study of the conventional harmonic formulas and cadences; harmonic analysis; harmonization of melodies and unfigured basses in the Bach chorale style using triads, dominant seventh chords and elementary modulations; also the composition of phrases in chorale style.

3 hours.

Texts: McHose, Basic Principles in the Technique of 18th and 19th Century Composition; McHose and White, Keyboard and Dictation Manual.

HARMONY 201. A more advanced course in written and keyboard harmony comprising a study of the following harmonic materials and techniques: sequences and other conventional progressions; use of non-harmonic tones; secondary sevenths and altered chords; advanced part-writing problems; modulation to both related and remote keys; harmonization of melodies and unfigured basses in advanced chorale style of Bach; composition and keyboard improvisation of modulating melodies and basses; two parts in free contrapuntal style; figured chorale prelude style; thorough bass realization; harmonic analysis.

3 hours.

Texts: McHose, *The Contrapuntal Harmonic Technique of the 18th Century*; McHose and White, *Keyboard and Dictation Manual*; Bach, *Organ Partitas*; Bach, *Little Organ Book*.

HARMONY 301. A study of the harmonic materials and styles of the Viennese masters. Analysis of representative works will precede the harmonization or composition of short passages in different media based on the harmonic materials of these composers. Keyboard study will include the application of this vocabulary to the keyboard as well as special drills in transposition, improvisation, modulation and reading from open score.

3 hours; 1 hour listening period.

Texts: Andrews, *The Oxford Harmony*; Schoenberg, *Structural Functions of Harmony*. Beethoven, Haydn, Mozart: *Sonatas and Quartets*, etc.

HARMONY 401. A study of the harmonic materials and styles of various groups of composers from Schubert to Debussy. Analysis of representative works will precede the composition of short pieces in different media based on the harmonic vocabularies of these masters.

2 hours; 1 hour listening period.

Texts: Andrews, *The Oxford Harmony*; Schoenberg, *Structural Functions of Harmony*. Brahms, Chopin, Debussy, Liszt, Schubert, Wagner: *Selected works*.

HISTORY 101. The history of the opera. An outline of the evolution of opera from 1600 to the present with musical and pictorial illustrations.

1 hour.

HISTORY 401, 402, 403. See **ELECTIVE COURSES**.

HISTORY AND ANALYSIS 101. Introduction to the history and literature of Western music with special emphasis upon the nature of musical materials and styles. One weekly period will be devoted to a study of analytical techniques (motivic, melodic, harmonic, and structural analysis).

4 hours.

Texts: Parrish and Ohl, *Masterpieces of Music before 1750*; Sachs, *Our Musical Heritage*; Boyden, *An Introduction to Music*.

HISTORY AND ANALYSIS 201. Music of the Classical and Romantic periods. A comparative study of selected masterworks of both periods aimed at a definition of the classical—romantic antithesis in terms of musical styles.

4 hours.

Text: Lang, *Music in Western Civilization*.

HISTORY AND ANALYSIS 301. Music of the Renaissance and Baroque periods. A study of the style and character of Renaissance and Baroque music considered both autonomously and in relation to the intellectual and aesthetic currents of these periods. The course will include detailed analyses of contrapuntal forms.

4 hours.

Texts: Apel and Davison, *Historical Anthology of Music*, vols. 1 and 2; Bukofzer, *Music in the Baroque*; Lang, *Music in Western Civilization*; Reese, *Music in the Renaissance*.

MUSIC

INSTRUMENTAL CLASS 101. Group instruction in wood-wind instruments. The student is required to choose one instrument for study. Solo performance of relevant parts from ensemble material of moderate difficulty. **Knowledge concerning the wood-wind instruments.**

1 hour.

INSTRUMENTAL CLASS 201. Group instruction in brass instruments. The student is required to choose one instrument for study. Solo performance of relevant parts from ensemble material of moderate difficulty. **Knowledge concerning the brass instruments.**

1 hour.

INSTRUMENTAL CLASS 301. Group instruction in stringed instruments. The student is required to choose one instrument for study. Solo performance of relevant parts from ensemble material of moderate difficulty. **Knowledge concerning the stringed instruments.**

1 hour.

LANGUAGE 101. A course serving to complete the special language requirement for voice students.

1 hour.

ORCHESTRATION 202. Study of the range of the various instrumental families, and scoring of simple compositions for each of these groups. Intended primarily for degree candidates in the field of School Music.

1 hour.

ORCHESTRATION 301. Study of the range and technical capacities of the various orchestral instruments. Scoring for selected instrumental combinations of such works as the Bach chorales, Mendelssohn's Songs Without Words, and Schumann's Scenes from Childhood.

1 hour.

ORCHESTRATION 302. A continuation of ORCHESTRATION 202. Scoring for different instrumental combinations of simple piano works such as Schubert's Moments Musicaux, Impromptus, etc.

1 hour.

ORCHESTRATION 401. A continuation of ORCHESTRATION 301 with special emphasis on instrumental colour. Full exploitation of the technical possibilities of the various instruments. Assignments will include the rescoring of masterworks for novel combinations.

1 hour.

VOCAL PHYSIOLOGY AND CHORAL TECHNIQUES. Study of the voice as a musical instrument. The relation of song to speech. Voice classifications and physiology of the voices of children, adolescents, and adults. Problems resulting from the improper function of the voice. Techniques of training choral groups at all levels. Problems pertaining to voice ranges, accuracy, quality, diction, interpretation, general organization, and repertory.

2 hours.

Text: Lawson, Full-Throated Ease.

FOURTH YEAR ELECTIVE COURSES

COMPOSITION 402. Radio composition and arranging. A course for composers designed to develop techniques of composing and arranging musical scores for radio, film, and television programmes. Admission only with consent of instructor.

1 hour.

HISTORY 401. Music of the mediaeval period. A survey of pre-Renaissance music from Gregorian chant to the music of Dunstable.

First term: 2 hours.

Texts: Apel and Davison, *Historical Anthology of Music*, vol. 1; Reese, *Music in the Middle Ages*.

HISTORY 402. Music of the twentieth century. A course devoted to: (a) a study of musical forms, textures, and idioms of the twentieth century; (b) an analysis of representative works by major composers of the past half century; (c) a discussion of critical writings pertaining to music of this period.

Second term: 2 hours.

Texts: Bauer, *Twentieth Century Music*; Salazar, *Music in our Time*.

HISTORY 403. Development of the orchestra from the seventeenth to the twentieth century. This course will be concerned with: (a) the recent history of orchestral instruments; (b) sociological aspects of orchestral organization and performance; (c) changing values in the art of orchestration; (d) the literature of the orchestra. Assignments will stress listening and aural analysis.

First term: 2 hours.

MUSICOLOGY 401. Introduction to Musicology.

2 hours.

PEDAGOGY 401. The pedagogy of stringed instruments. The physical nature and characteristics of these instruments. The study of basic principles and underlying instrumental instruction. The evolution of these instruments and the development of their individual repertoires. Traditional and contemporary methods of instruction.

1 hour.

PEDAGOGY 402. The pedagogy of the piano. Examination of existing piano teaching methods and materials. Elementary psychology as applied to piano teaching. Physiology: the muscular construction of the hand and the arm. The mechanism of the piano and its relation to touch and technique. The development of technique from the initial through all subsequent grades. Methods of teaching technique, interpretation, phrasing, pedalling, fingering, memorizing, practice routine, ear-training, sight-reading, demonstration lessons. The piano teacher's library. The business end of teaching.

1 hour.

PEDAGOGY 403. The pedagogy of the organ. Methods of teaching pure technique, registration, touch, interpretation. The execution of ornaments. The organist's repertoire. Service playing and accompaniment. Improvisation. Methods of programme building. Sight-reading and score reading. Elements of organ construction.

1 hour.

MUSIC

PEDAGOGY 404. The pedagogy of singing. Examination of various methods of voice production. Physiology of the voice—a detailed study of the function of the larynx in speech and singing. Registers of the voice and voice classification. Breath control and diction. Tone placement in speech. Suitable studies and songs for the different types of vocal student. A general knowledge of vocal repertoire: art songs, opera, and oratorio arias. Discussion of the teacher's personal approach to the student. Demonstration lessons.

1 hour.

COURSES IN THE INSTITUTE OF EDUCATION

SCRIPTURE. The historical and literary background of the Bible.

PHYSICAL EDUCATION. Indoor games, field sports, apparatus work, social and folk rhythms.

ACADEMIC. (continuation).

EDUCATION 1. The growth and Development of Children. A study of the general characteristics of physical, social and emotional development in children.

EDUCATION 3. Educational Psychology. Growth and development of children through adolescence. Psychology of learning. Individual differences. Growth and development of personality. Testing measurement. Mental hygiene and educational guidance.

EDUCATION 4. The History of Education in Western Society. The history of education in Europe and America including a comparative study of systems of public education in the countries of Western Europe, in the United States and in Canada.

EDUCATION 10. General Educational Practice.

- (a) Curriculum organization, lesson planning, teaching media and methods, individualization of instruction, evaluation and testing, school law.
- (b) Audio-visual methods and materials, projection operation, the use of films and filmstrips, radio, models and displays, field trips.
- (c) Organization and preparation of teaching materials for one of the following: the Primary Department, the Elementary School, the Junior High School.

EDUCATION 12. Subject methods.

- a Language Arts. Language, reading literature.
- b " " Spelling, writing, childhood education.
- d Health and Recreation.
- f Science.
- i Social Studies.
- h Art.
- g Music.

EDUCATION 20. Observation and Classroom Practice.

Practice teaching in areas listed under Education 12 with emphasis on music teaching.

ACADEMIC CONTINUATION COURSES

ACADEMIC CONTINUATION COURSES

For Mus.B. candidates in COMPOSITION:

I. In English:

FIRST YEAR	English 100
SECOND YEAR	One of English 200 (Shakespeare) English 210 (XVII C) English 220 (XVIII C) English 230 (XIX C)
THIRD AND FOURTH YEAR	Two of English 218a (Sidney & Spenser) & 315b (XV & XVI C) English 330 (Drama since 1600) English 335 (The Novel) English 345 (Prose since Bacon) English 350 (Milton) English 380 (Utopias)

II. In Fine Arts:

SECOND YEAR	Fine Arts 201 (Introductory)
THIRD YEAR	Fine Arts 301 (Modern Art)
FOURTH YEAR	Fine Arts 401a (Renaissance) and 401b (History of Art)

III. In German:

FIRST YEAR	German 1
SECOND YEAR	German 2 (Language)
THIRD YEAR	One of German 5 (Language) German 7 (Language & Literature)
FOURTH YEAR	One of German 8 (XVIII C) German 9 (XIX C)

IV. In History, Political Science & Economics:

FIRST YEAR	One of Economics 100 (Economic History) History 100 (European Civilization)
SECOND YEAR	One of History 210 (Great Britain) History 215 (E. Europe from the V.C.) Political Science 211G (Comparative Government)
THIRD YEAR	One of History 325 History 326 Political Science 311
FOURTH YEAR	One of History 320 (Background of Contemporary Europe) History 410 (European Thought since the Renaissance)

V. In Latin:

FIRST YEAR	Latin 11 (Language)
SECOND YEAR	One of Latin 21 (Vergil) Latin 22 (Pliny)
THIRD YEAR	One of Latin 31 (Cicero, Livy, Ovid) Latin 32 (Vergil, Sallust)
FOURTH YEAR	One of Latin 41 Latin 42

VI. In Philosophy:

SECOND YEAR	Philosophy 1 (Introduction)
THIRD YEAR	Philosophy 2 (Ethics)
FOURTH YEAR	One of Philosophy 4 (Aesthetics) Philosophy 5 (Greek) Philosophy 6 (Modern) Philosophy 7 (Mediaeval & Renaissance)

MUSIC

VII. In French:

FIRST YEAR	One of French 11 French 12
SECOND YEAR	French 21 (Literature)
THIRD YEAR	One of French 31 (XVII C) French 32 (XVIII C)
FOURTH YEAR	One of French 43 (XIX & XX C) French 41 (Modern France) French 42 (XIX C)

VIII. In Spanish:

FIRST YEAR	Spanish 11 (Language)
SECOND YEAR	One of Spanish 21 (Language) Spanish 22 (Literature)
THIRD YEAR	One of Spanish 31 Spanish 32 Spanish 33 (Literature)
FOURTH YEAR	One of Spanish 41 Spanish 42 Spanish 43 (Literature)

IX. In Italian:

FIRST YEAR	Italian 11 (Language)
SECOND YEAR	Italian 21 (Language and Literature)
THIRD YEAR	One of Italian 25 Italian 31 (Literature)
FOURTH YEAR	Italian 41

N.B. In all cases, selection of courses will be governed by the stated pre-requisites. See also Calendar of FACULTY OF ARTS AND SCIENCE, for additional information.

2. For Mus.B. candidates in PERFORMANCE and SCHOOL MUSIC:

I. In English:

SECOND YEAR	English 100
THIRD YEAR	One of English 200 (Shakespeare) English 210 (XVII C) English 220 (XVIII C) English 230 (XIX C)
FOURTH YEAR	One of English 318a (Sidney & Spenser) & 315b (XV & XVI C) English 330 (Drama since 1660) English 335 (The Novel) English 345 (Prose since Bacon) English 350 (Milton) English 380 (Utopias)

II. In Fine Arts:

SECOND YEAR	Fine Arts 201 (Introductory)
THIRD YEAR	Fine Arts 301 (Modern Art)
FOURTH YEAR	Fine Arts 401a (Renaissance) and 401b (History of Art)

III. In German:

SECOND YEAR	German 2 (Language)
THIRD YEAR	One of German 5 (Language) German 7 (Language & Literature)
FOURTH YEAR	One of German 8 (XVIII C) German 9 (XIX C)

ACADEMIC CONTINUATION COURSES

IV. In History, Political Science & Economics:

SECOND YEAR	One of Economics 100 (Economic History) History 100 (European Civilization)
THIRD YEAR	One of History 210 (Great Britain) History 215 (E. Europe from the V.C.) Political Science 211G (Comparative Government)
FOURTH YEAR	One of Political Science 311 (Political Theory) History 320 (Background of Contemporary Europe) History 410 (European Thought since the Renaissance)

V. In Latin:

SECOND YEAR	Latin 11 (Language)
THIRD YEAR	One of Latin 21 (Vergil) Latin 22 (Pliny)
FOURTH YEAR	One of Latin 31 (Cicero, Livy, Ovid) Latin 32 (Vergil, Sallust)

VI. In Philosophy:

SECOND YEAR	Philosophy 1 (Introduction)
THIRD YEAR	Philosophy 2 (Ethics)
FOURTH YEAR	One of Philosophy 4 (Aesthetics) Philosophy 5 (Greek) Philosophy 6 (Modern) Philosophy 7 (Mediaeval & Renaissance)

VII. In French:

SECOND YEAR	One of French 11 French 12
THIRD YEAR	French 21 (Literature)
FOURTH YEAR	One of French 31 (XVII C) French 32 (XVIII C) French 41 (Modern France) French 42 (XIX C) French 43 (XIX & XX C)

VIII. In Spanish:

SECOND YEAR	Spanish 11 (Language)
THIRD YEAR	One of Spanish 21 (Language) Spanish 22 (Literature)
FOURTH YEAR	One of Spanish 31 Spanish 32 Spanish 33 (Literature) Spanish 41 Spanish 42 Spanish 43 (Literature)

IX. In Italian:

SECOND YEAR	Italian 11 (Language)
THIRD YEAR	Italian 21 (Language and Literature)
FOURTH YEAR	One of Italian 25 Italian 31 (Literature) Italian 41

N.B. In all cases, selection of courses will be governed by the stated pre-requisites. See also Calendar of **FACULTY OF ARTS AND SCIENCE**, for additional information.

DEPARTMENT OF KEYBOARD AND VOCAL MUSIC

PRACTICAL COURSES

N.B. Practical courses in the Faculty and in the Senior Department of the Conservatorium are numbered according to the following plan.

	Degree Courses	Diploma Courses
First Year	101	110 (Associate)
Second Year	201 202 (Professional Instructor — Voice Only)	210 (First Licentiate)
Third Year	301 302 (Professional Instructor)	310 (Second Licentiate)
Fourth Year	401 402 (Professional Instructor)	

Diploma courses may not be substituted for degree courses and vice-versa.

PIANO

The complete list of exercises and studies referred to in the subsequent piano courses is enumerated below. To conserve space these works will be referred to in the text by means of letter symbols rather than by their full title.

- A-PD — Aronson, Pianist's Digest
- B-E — Beringer, Exercises
- C-GP — Clementi, Gradus ad Parnassum
- Ch-Et — Chopin, Etudes
- Cor-RPT — Cortot, Rational Principles of Piano Technique
- Cr-ET — Cramer (Buelow), Etudes
- Cz-AFD — Czerny, The Art of Finger Dexterity, Op. 740
- P-PE — Pischna, Progressive Exercises

PIANO 101

Scales:

All major, minor (melodic and harmonic), and chromatic scales at the distance of an octave, third, sixth, and tenth, through four octaves. These are studied in both similar and contrary motion, beginning with either the highest or the lowest note, legato and staccato, forte and piano. Also all major scales in double thirds and double octaves through two octaves in similar motion.

Arpeggios:

Common chords as well as dominant and diminished seventh chords at the distance of an octave, third, sixth, and tenth, through four octaves. These are studied in both similar and contrary motion, beginning with either the highest or the lowest note, legato and staccato, forte and piano. Also all common chords in double octaves, beginning with either the highest or the lowest note.

Exercises

and Studies: A-PD; C-GP (any one); Cor-RPT; Cr-Et (any one); Cz-AFD (any two); P-PE (Nos. 1-12).

*Prepared
Pieces:*

Candidates are required to submit the titles of four pieces which they will have studied during the year. The titles will be selected from the list given under Piano 110. Adequate mastery of the technical and musical problems occurring in these pieces must be demonstrated. A complete performance from memory is required in the case of only one piece to be selected by the candidate.

PIANO 110

*Scales and
Arpeggios:*

The same as for Piano 101.

*Exercises
and Studies:*

The same as for Piano 101.

*Prepared
Pieces:*

Candidates are required to perform one selection from each of the following four groups:

- I. Bach English Suite in G Minor (Prelude or any two movements).
Partita in B Flat Major (any two movements).
The Well-Tempered Clavier (any Prelude and Fugue).
Couperin Ordres (Nos. 1-5: any two movements).
Rameau L'Egyptienne.
Les Tendres plaintes.
La Villageoise.
- II. Bach (W.F.) Sonatas (any one).
Bach (K.P.E.) Sonatas (any one).
Beethoven Sonata Op. 2 No. 2 (first movement).
Sonata Op. 2 No. 3 (first movement).
Sonata Op. 27 No. 1 (first movement).
Sonata Op. 31 No. 2 (last movement).
Galuppi Sonatas (any one).
Haydn Sonatas (first and second, or second and third movement of any late sonata).
Mozart Sonata in A Major, K. 331.
Sonata in B Flat Major, K. 333 (first movement).
Sonata in D Major, K. 576 (first movement).
- III. Brahms Intermezzo Op. 117 No. 3.
Intermezzo Op. 119 No. 2.

MUSIC

- Chopin Mazurka Op. 17 No. 4.
 Mazurka Op. 24 No. 2.
 Mazurka Op. 30 No. 2.
 Mazurka Op. 33 No. 2.
 Mazurka Op. 33 No. 4.
- Chopin Nocturne Op. 9 No. 1.
 Nocturne Op. 32 No. 1.
 Waltz Op. 34 No. 3.
 Waltz Op. 69 No. 1.
- Liszt Valse oubliée No. 1.
- Mendelssohn . . Songs without Words
 Op. 30 No. 5.
- Schubert Moments musicaux Op. 94
 (Nos. 1 and 6 or any of the
 remaining pieces in this opus
 group).
- Schumann Fantasy — Pieces Op. 12
 (No. 1, or Nos. 3 and 4).
 Papillons (Introduction and
 any two).
 Scenes from Childhood
 (any three).
- IV. Bartok Hungarian Peasant Songs
 (any three).
- Debussy Preludes (Book 1: "Voiles").
 Children's Corner ("The Snow
 is Dancing").
- Robert Fleming . Sonatina.
- Granados Spanish Dances (any one).
- Scriabine Etude in C Sharp Minor.
- Shostakovitch . . Three Fantastic Dances Op. 1.

PIANO 201

Scales:

The same as for Piano 101. Also all minor and chromatic scales in double thirds and double octaves, through two octaves, in similar motion.

Arpeggios:

The same as for Piano 101. Also all dominant and diminished seventh chords in double octaves, beginning with either the highest or the lowest note.

Exercises and Studies:

A-PD; Cor-RPT. Any two etudes from: C-GP; Cr-Et; Cz-AFD; Ch-Et. Also P-PE (any ten from No. 13 to the end), or B-E (any ten). Note however that the study prepared for the previous examination may not be included. This rule applies as well to prepared pieces and is binding for all subsequent grades.

Prepared Pieces:

Candidates are required to perform one selection from each of the four groups listed under PIANO 110.

PIANO 210

*Scales and
Arpeggios:*

The same as for Piano 201.

*Exercises
and Studies:*

A-PD; Cor-FPT; B-E (any ten). Any three etudes from Cr-Et; C-GP; Cz-AFD. Also P-PE (any ten from No 13 to the end).

*Prepared
Pieces:*

Candidates must prepare and submit for approval a programme of five works comprising one representative work from each of the following periods:

I. Baroque—e.g.

- Bach Italian Concerto.
 Partitas
 Suites.
 The Well-Tempered Clavier
 (any prelude and fugue).
- Couperin Ordres.
- Handel Suites.
- Rameau Ordres.
- D. Scarlatti Sonatas.

II. Classical—e.g.

- Beethoven Concertos (first or last move-
 ment of any of the piano con-
 certos with cadenza).
 Sonatas.
- Haydn Sonatas.
- Mozart Concertos (first or last move-
 ment of any of the piano con-
 certos with cadenza).
 Sonatas.

III. Romantic—e.g.

- Brahms Ballades.
 Intermezzi.
 Rhapsodies.
- Chopin Ballade in A Flat Major.
 Berceuse.
 Etudes.
 Polonaises.
- Liszt Etudes ("Forest Murmur",
 "Un Sospiro").
 Polonaise in E Major.
- Mendelssohn Rondo Capriccioso.

Schubert Impromptus (any two).
Sonata Op. 120.

Schumann Carnaval de Vienne.
Fantasiestücke.
Kreisleriana.
Novelettes.

IV. Impressionist — e.g.

Debussy Children's Corner.
Images.
Preludes.
Reflets dans l'eau.
Suite bergamasque.

Ravel Jeux d'eau.
Sonatine.

V. Contemporary — e.g.

Works of: Bartok, Howard Fergusson, Hindemith,
Milhaud, Poulenc, Shostakovitch, Villa-Lobos, etc.

PIANO 301

Scales and Arpeggios: The same as for Piano 201.

Exercises and Studies: B-E (any ten). Also any three from: C-GP; Cr-Et; Cz-AFD.

Prepared Pieces: The same as for Piano 210.

PIANO 302

Scales, Arpeggios, Exercises and Studies: The same as for Piano 301.

Prepared Pieces: Candidates must prepare a previously approved sonata programme consisting of one each of sonatas by Scarlatti, Mozart, Beethoven, and by one Romantic composer.

Pedagogy: Candidates are required to demonstrate their pedagogical skill in instructing a beginner in basic principles. In addition, candidates will be examined as to their knowledge of, and ability to demonstrate, underlying principles of fingering. Also application of these principles in the scales, arpeggios, exercises, studies and prepared pieces.

PIANO 310

Prepared Pieces:

The performance, from memory, of a previously approved representative recital programme, also to be given in public. The examination also calls for the performance of one piano concerto (e.g. Bach, Mozart, Beethoven, Chopin, Schumann, Liszt, Grieg, Tchaikovsky, Brahms (D Minor), Rachmaninoff (C Minor).

PIANO 401

The same as Piano 310.

PIANO 402

*Prepared
Pieces:*

Candidates are to perform a previously approved programme of five works as in Piano 301 (210).

Pedagogy:

Candidates must demonstrate their skill in analyzing technical and musical problems involved in teaching the following: hand- and arm-position, relaxation, principles of fingering, legato and staccato touch, pedalling, execution of ornaments, phrasing, differences of style according to historical period of composition, differences of teaching method.

ORGAN

ORGAN 101

Scales:

All major, minor (melodic and harmonic), and chromatic scales played with varying degree of touch and speed:

- (a) manuals only, hands together at octave, third, and sixth through three octaves;
- (b) pedals only, through the full extent of the pedal board;
- (c) manuals and pedals, the hands at the interval of an octave with the pedals.

Arpeggios:

Common chords, major and minor, in the keys of C, D flat, D, E flat, E, and F;

- (a) manuals only through three octaves;
- (b) pedals only through two octaves;
- (c) one hand and pedals combined in similar and contrary motion.

*Prepared
Pieces: ⁽¹⁾*

At the examination the candidate will be required to play the whole of either:

List A: Bach, Ein' Feste Burg (XVIII) ⁽²⁾, Willan, Prelude and Fugue in B Minor; Frank Bridge, Prelude;

or

List B: Bach, Aria in F (XII); Harold Darke, Prelude on a Theme by Tallis; Max Reger, Benedictus.

⁽¹⁾ At the examination questions will be asked concerning the registration of the prepared pieces. This applies as well to the examinations for subsequently listed organ courses.

⁽²⁾ Bracketed Roman numerals in the present section (Organ) refer to volume numbers in the recommended Novello edition of Bach's organ works.

MUSIC

ORGAN 110

*Scales and
Arpeggios:*

The same as for Organ 101.

*Prepared
Pieces:*

At the examination the candidate will be required to play the whole of either:
List A: Bach, Prelude and Fugue in A (III, p. 64); Harold Darke, Prelude on "St. Peter"; Hindemith, Sonata No. 2; *or*
List B: Bach, Christ ist erstanden (three verses) (XV); Schumann, No. 1 of four Sketches (ed. Biggs); Franck, Cantabile in B.

ORGAN 201

Scales:

All major, minor (melodic and harmonic), and chromatic scales played with varying degrees of touch and speed: (a) and (b) as for Organ 101 but with increased proficiency, (c) manuals (both hands) and pedals at intervals of octave, third, and sixth in similar motion.

Arpeggios:

Common chords in similar motion in all keys, manuals and pedals combined.

*Prepared
Pieces:*

At the examination the candidate will be required to play the whole of either:
List A: Bach, Sonata No. 2 (IV); Brahms, Herzlich tut mich verlangen; Langlais, Française (Suite Française); *or*
List B: Bach, Valet will ich dir geben (XIX); Mendelssohn, Sonata No. 2; Arthur Egerton, An Easter Prelude.

ORGAN 210

Scales:

All major, minor (melodic and harmonic), and chromatic scales played with varying degrees of touch and speed:
(a) manuals only in similar and contrary motion, beginning with either the highest or lowest notes, at intervals of an octave, third and sixth, — also double thirds in similar motion only;

(b) pedals only, single notes and octaves;

(c) manuals and pedals together, one note to each hand, and pedals at intervals of octave, third, and sixth, with all variations of similar and contrary motion.

Arpeggios:

Common chords in similar and contrary motion in all keys, manuals and pedals combined.

*Prepared
Pieces:*

At the examination the candidate will be required to play the whole of either:
List A: Bach, Toccata in F (IX, p. 176); Mendelssohn, Sonata No. 3; Franck, Pastorale; *or*
List B: Bach, Prelude and Fugue in B Minor (VII, p. 52); Howells, Sarabande for the Morning Star of Easter; Dupre, Fifteen Pieces for Organ (any three pieces).

ORGAN 301

*Scales and
Arpeggios:*

The same as for Organ 210.

*Prepared
Pieces:*

At the examination the candidate will be required to play the whole of either:

—List A: Bach, "Dorian" Toccata and Fugue (X, p. 196); Mendelssohn, Allegretto from Sonata No. 4; Widor, Symphony No. 6 (first movement); or

—List B: Bach, Sonata No. 6 (V); S.S. Wesley, Choral Song and Fugue; Langlais, Suite Française (Nazard).

ORGAN 302

*Scales and
Arpeggios:*

The same as for Organ 210.

*Prepared
Pieces:*

At the examination the candidate will be required to play the whole of either:

—List A: Bach, Fantasia in G (IX, p. 168); Rheinberger, Allegro non troppo from Sonata No. 5; Messiaen, Le Banquet céleste; or

—List B: Bach, Fugue in E Flat (XVI); Saint-Saens, Prelude in B; Langlais, Elevation (Hommage à Frescobaldi).

Pedagogy:

The candidate will also be examined upon his knowledge of, and ability to demonstrate, the basic principles of fingering and pedalling, and their application in the scales, arpeggios, exercises, and pieces prepared. He will, in addition, be required to demonstrate his pedagogical skill in instructing a beginner in basic principles.

ORGAN 310

*Prepared
Pieces:*

The candidate will be required to present a public recital of one hour duration with selections from the ensuing list as well as additional items of the candidate's own choice.

Bach, Toccata, Adagio and Fugue (IX, p. 137); Bach, Variations on "Sei gegruesst, Jesu, gutig" (XIX); Bach, Concerto in A Minor (XI); Bach, Prelude and Fugue in D Major (XI); Mozart, Fantasia in F Minor; Liszt, Prelude and Fugue on BACH; Franck, Chorale No. 3; Dupre, Variations on a Noel; Willan, Introduction Passacaglia and Fugue; Hindemith, Sonata No. 1; Sowerby, Air with Variations; Jehan Alain, Litanies.

ORGAN 401

*Prepared
Pieces:*

The same as for Organ 310.

MUSIC

ORGAN 402

Prepared Pieces:

At the examination the candidate will be required to play the whole of either:

—List A: Bach, An Wasserflüssen Babylon (five part) (XVIII, p. 13); Elgar, Sonata in G (first movement); Jehan Alain, Le Jardin suspendu; *or*

—List B: Bach, Prelude in E Flat (XVI); Bairstow, Prelude on Vexilla Regis; Harold Darke, A Fantasy.

Pedagogy:

The candidate must also demonstrate his skill in analyzing all technical and musical problems involved in teaching, such as bodily positions, principles of fingering and pedalling, varieties of touch, execution or ornaments, phrasing, registration, differences of style according to historical period of composition, differences of teaching methods. The candidate must also give a pedagogical demonstration of instruction with an advanced pupil (Organ 10-11). There will be an assessment of results with young student assigned to the candidate for regular teaching at the beginning of the year.

HARPSICHORD

HARPSICHORD 101

Introduction to figured bass playing. (Recommended text; R.O. Morris, Figured Harmony at the Keyboard.) More advanced study of the different keyboard schools and of ornaments. Special finger exercises for harpsichord touch and technique. Sample repertoire: Bach, Three-Part Inventions; Bach, French Suites; Blow, Ground; Rameau, Les tendres plaintes; Scarlatti, Study in G.

HARPSICHORD 201

Further study of figured bass. Continuo and sonata playing. Study of concertos for harpsichord. Sample repertoire: Bach, Concerto in F Minor; Bach, Preludes and Fugues; Bach, Suite in B Minor for Flute, Strings and Continuo; Handel, Sonatas for Violin and Harpsichord; Scarlatti, Sonatas.

VOICE

VOICE A 101. (Concert: Lied-Oratorio) Continuation and extension of technical exercises and studies listed under Voice 10 and 11 (Junior Department of the Conservatorium) as well as Randegger's Singing Primer. (Exercises on pages 38, 41, 48, 102, 104, 107, 161 selected according to voice.) Extension of repertoire of traditional German, French, English, and modern songs. Study of suitable parts from the oratorio and cantata literature. Examination requirements: 3 studies of a contrasting nature, 4 Songs (1 each of German, French, English, and modern songs). 1 excerpt each from Oratorio and Cantata.

VOICE B 101. (Opera) Thorough study of early Italian, French, and English opera. Opera buffa; opera seria.

VOICE A 110. The same as Voice A 101-201.

VOICE B 110. The same as Voice B 101-201.

VOICE A 201. Continuation and extension of Voice A 101.

ENSEMBLE COURSES

- VOICE B 201. Continuation and extension of Voice B 101. Also early German Opera; singspiel; light opera.
- VOICE 202. The same as Voice B 101.
- VOICE A 210. The same as Voice A 201-301.
- VOICE B 210. The same as Voice B 201-301.
- VOICE A 301. Candidates must prepare a previously approved programme of three groups, comprising examples from the oratorio and cantata literature, early Italian or French opera, German Lieder, French art-songs, contemporary songs.
- VOICE B 301. Nineteenth century grand opera. Wagner, Verdi, Meyerbeer, Saint-Saens, Puccini, etc. Candidates must be prepared to participate in the stage-productions of the opera-school and must know at least one complete leading role and one complete minor role from among the works of any of the above-named composers.
- VOICE 302. The requirements are the same as for Voice 301. In addition, the candidate will be examined as to his knowledge of, and ability to demonstrate, underlying technical principles and their application to the pieces prepared, and will have to show his pedagogical skill in instructing a beginner in basic principles.
- VOICE A 310. The performance of a previously approved representative song-recital programme, also to be given in public. The examination also calls for a complete solo cantata, or a complete oratorio part, as well as a demonstration of the candidate's practical acquaintance with the general repertoire of the concert-singer.
- VOICE B 310. The candidate must know three leading operatic roles from three different periods (e.g.: one Mozart, one Rossini; one Wagner, Verdi, or Puccini), as well as three minor operatic roles from the eighteenth or nineteenth century repertoire.
- VOICE A 401. The same as Voice A 310.
- VOICE B 401. Same as Voice B 310.
- VOICE 402. The candidate will have to perform a previously approved programme of songs, and excerpts from the cantata, oratorio, and opera literature. In addition, he will have to demonstrate his ability in analyzing all technical and musical problems involved in teaching: voice classification, voice production, tone placement, breath control, diction, phrasing, differences of style according to historical period and type of composition, differences of teaching methods (Italian, German, French schools). The candidate will also have to give a pedagogical demonstration of instruction with advanced pupil (Voice 10). There will be an assessment of results with young student assigned to candidate at beginning of the year. Also required: a practical knowledge of teaching materials as well as of the concert-singer's general repertoire, including operatic arias.

ENSEMBLE COURSES

(A) KEYBOARD:

PIANO ACCOMPANIMENT 101. Accompaniment of songs and arias by pre-classical, and romantic composers. In conjunction with regular singing classes.

1 hour.

MUSIC

PIANO ACCOMPANIMENT 201. Songs by Debussy, Franck, Mahler, Richard Strauss, Wolf, and contemporary composers. Analysis of differences between solo and accompaniment playing.

1 hour.

PIANO ENSEMBLE 101. The object of this course is to develop sight-reading and pianistic team-work, and to promote an acquaintance with original works for the medium, as well as with four-hand arrangements of the chamber music and symphonic literature. Works and arrangements of works by Beethoven (Septet, Symphonies — Vols. I and II), Clementi, Haydn, Mozart, Mendelssohn (Octet), Schubert, and Weber.

1 hour.

PIANO ENSEMBLE 201. Overtures of Wagner and Weber. Symphonies of Beethoven (Vols. IV-VIII), Haydn, Mendelssohn, Mozart, Schubert, and Schumann, as well as those of Bruckner, Franck, and Mahler. Symphonic poems of Richard Strauss. Original music for two pianos by Arensky, Chopin, Rachmaninoff, Reger, etc.

1 hour.

(B) OPERA:

ACTING 201. History of acting in opera. Stage terms. Stage deportment. Methods of interpretation through mime. Schools of expression. Analysis of different acting styles in opera. Practical work: grouping, miming, moving. Scene miming from standard operas.

1 hour.

REPERTORY COACHING 201. In conjunction with Voice B 201.

1 hour.

REPERTORY COACHING 301. In conjunction with Voice B 301.

1 hour.

REPERTORY COACHING 401. In conjunction with Voice B 401.

1 hour.

STAGING 301. History of mise en scène. Production elements of opera: music, libretto, singers, chorus, orchestra conductor, ballet, stage, prompter, building, lighting, scenery, costumes, props.

1 hour.

STAGING 401. The production of an opera from start to performance.

1 hour.

(C) CHORUS:

CHORAL CONDUCTING 301. A basic course in choral technique, choir psychology, and conducting methods. Special attention will be given to intonation, blend, tone, diction, and phrasing. Choral literature will be studied up to J. S. Bach, and students will conduct a Bach cantata.

1 hour.

CHORAL CONDUCTING 401. A course in conducting choral music of the Romantic and Contemporary schools. Score study and preparation. Students will have the opportunity of conducting the Conservatorium Choir.

1 hour.

ELECTIVE COURSES

CHURCH CHORAL MUSIC 301. A survey of religious choral music until 1700. The use of the hymn in worship. Organization and management of the church choir.

1 hour.

CHURCH CHORAL MUSIC 401. Religious choral music from 1700 to the present day. Available materials for church choirs will be studied and performed. The relationship of the choir director to the minister, the congregation, and the church will be discussed.

1 hour.

COLLEGIUM MUSICUM 101. A course in Renaissance vocal ensemble music including the English, Franco-Flemish, German, and Italian schools. Special attention will be given to styles and interpretation, and the international phonetic alphabet will be used for language diction.

2 hours.

COLLEGIUM MUSICUM 201. A continuation of Collegium Musicum 101, with emphasis on Baroque and contemporary ensemble music in which solo singing participation and instruction play an important part.

2 hours.

CONSERVATORIUM CHOIR. Detailed study and performance of choral literature selected from the great schools of choral composition. The programme provides a four-year comprehensive survey of choral music.

2 hours.

FOURTH YEAR ELECTIVE COURSES

ORGAN REPERTORY 401. This course is intended to supplement Organ 401 by giving Fourth Year organ students the opportunity to perform and discuss the masterworks of the Organ within a class group. The elements of style, form, registration, interpretation, programme-design, performer — and audience — psychology, and music-criticism will be examined.

1 hour.

PIANO REPERTORY 401. This course is intended to supplement Piano 401 by giving Fourth Year piano students the opportunity to perform and discuss the masterworks of the Piano, within a class group. The elements of style, form, interpretation, programme-design, performer — and audience — psychology, and music-criticism will be examined.

1 hour.

RADIO 401: RADIO PROGRAMMING, CONTINUITY WRITING, AND ANNOUNCING. Programming of musical, dramatic, and variety broadcasts. Elements involved; choice and arrangement of material. Continuity writing for musical, dramatic, variety, and miscellaneous programmes: formats, research, style. Announcing. Techniques of voice production. Vocabulary. Style. Reading. Functions of announcer. Sustaining programmes, commercials. The history of radio.

1 hour.

RADIO 402: RADIO MUSIC PRODUCTION AND STUDIO TECHNIQUES. The development of broadcasting. Acoustics in broadcasting; analysis of acoustical reports to determine studio characteristics. Studio equipment: microphones, control-board, disc-and tape-recorder. Production team: artist,

announcer, technician, producer. Studio techniques: solo recital, instrumental ensemble, studio orchestra, concert orchestra. Casting office. Auditioning procedures. Legal regulations in broadcasting. Attendance at live broadcasts and rehearsals.

1 hour.

DEPARTMENT OF ORCHESTRAL INSTRUMENTS

PRACTICAL COURSES

(N.B. For numbering plan of courses please refer to page 2138.)

VIOLIN

VIOLIN 101

Scales:

All major and minor (melodic and harmonic) scales in thirds and sixths, one note to each bow, through two octaves. Also all scales through three octaves with four different bowings. Chromatic scales through two octaves, starting from G, B flat, and D.

Arpeggios:

All major and minor chords through three octaves. Dominant seventh chords in all keys through three octaves.

Prepared Pieces:

Candidates must perform any one etude from the works of each of the following composers: Dont, Fiorillo, Gavinies, Kreutzer, Rode, Rovelli.

VIOLIN 110

Scales and Arpeggios:

The same as for Violin 101.

Prepared Pieces:

The same as for Violin 101. Candidates must also perform one selection from each of the following groups:

I. Sonatas — Beethoven, Sonata in F Major, Op. 24; Beethoven, Sonata in G Major, Op. 30 No. 3.

II. Concertos (first or second and third movement with cadenzas) — Mendelssohn, Concerto in E Minor; Mozart, Concerto in D; Mozart, Concerto in A.

VIOLIN 201

Scales:

All major and minor (melodic and harmonic) scales in thirds, sixths, octaves, and tenths, one note to each bow and two notes slurred, through two octaves. Chromatic scales through two octaves, beginning on any note.

Arpeggios:

All major and minor chords through three octaves. In octaves and tenths through two octaves. Also dominant and diminished seventh chords in all keys through three octaves.

PRACTICAL COURSES—VIOLIN

Prepared Pieces:

Campagnoli, Divertissements (Nos. 2 and 6). Dont, Studies Op. 37 (any one of the last three); Paganini, Caprices Op. 1 (Nos. 13 and 24); Wieniawski, L'Ecole Moderne Op. 10 (Nos. 1 and 3).

VIOLIN 210

Scales and Arpeggios:

The same as for Violin 201.

Prepared Pieces:

The same as for Violin 201. Candidates must also perform one selection from each of the following groups:

I. Sonatas — Brahms, Sonata in A Major; Dohnanyi, Sonata.

II. Concertos — Bruch, Concerto in G Minor; Lalo, Symphonie Espagnole (first, fourth, and fifth movements).

VIOLIN 301

Prepared Pieces:

The performance of a previously approved sonata recital programme of approximately one hour duration, consisting of classical, romantic and contemporary works. After the examination a public recital may be required. Suggested works: any of the Mozart, Beethoven, or Brahms sonatas, as well as those by Dohnanyi, Franck, Debussy, Ravel, Faure, Prokofiev, Copland or a Canadian composer.

VIOLIN 302

Scales and Arpeggios:

Knowledge and demonstration of underlying technical principles involved in the performance of all scales and arpeggios of previous grades using at least three different bow groupings.

Prepared Pieces:

Knowledge and demonstration of underlying technical principles involved in the performance of the following studies: Campagnoli, Divertissement (Nos. 2 and 6); Dont, Studies Op. 37 (any two of the last six); Paganini, Caprices Op. 1 (Nos. 13, 17 and 24); Wieniawski, L'Ecole Moderne Op. 10 (Nos. 1, 3, and 5).

Pedagogy:

A pedagogical demonstration with young student is required.

VIOLIN 310

Prepared Pieces:

The performance from memory of a previously approved recital programme lasting one hour. After examination a public recital is required. The order of the programme should be as follows:

MUSIC

- (1) Unaccompanied suite — e.g. any one of the Bach suites or sonatas for unaccompanied violin.
- (2) Concerto — e.g. any one of the Mozart, Beethoven, Brahms, Saint-Saens (B Minor), Bruch (G Minor or D Major), Glazounov, Prokofieff (Op. 19 No. 1), Elgar, or Walton concerti; also Lalo's *Symphonie espagnole*.
- (3) Group of pieces — e.g. Bloch, "Baal Shem" Suite; Nin, *Suite espagnole*; Szymanowski, *La Fontaine d'Arethuse*.

Any contemporary works of a similar nature may be presented, including a work by a Canadian composer (unaccompanied suite, concerto, or group of pieces).

VIOLIN 401

The same as Violin 310.

VIOLIN 402

*Prepared
Pieces:*

The requirements are the same as those for Violin 301.

Pedagogy:

The candidate will have to give a pedagogical demonstration of instruction with advanced pupil (Violin 10-11). There will be an assessment of results with young student assigned to candidate for teaching at the beginning of the year. The candidate will, in addition, be required to demonstrate his skill in analyzing technical and musical problems involved in teaching, e.g. bowing, fingering, detached and slurred playing, varieties of tone, vibrato, execution of ornaments, phrasing and differences of style according to historical period of composition, differences of teaching methods.

VIOLA

VIOLA 101

Scales:

All major and minor (melodic and harmonic) scales in thirds and sixths, one note to each bow, through two octaves. Also all scales through three octaves with four different bowings. Chromatic scales through two octaves, starting from G, B flat, and D.

Arpeggios:

All major and minor chords through three octaves. Dominant seventh chords in all keys through three octaves.

*Prepared
Pieces:*

Candidates must perform any one etude from the works of each of the following composers: Dont, Fiorillo, Kreutzer, Rode, and Rovelli.

VIOLA 110

Scales and Arpeggios: The same as for Viola 101.

Prepared Pieces: The same as for Viola 101. Candidates must also perform one selection from each of the following groups:

- I. Sonatas — Handel, Sonata in C Major; Vivaldi, Sonata in G Minor.
- II. Concertos — Stamitz, Concerto in D; Telemann, Concerto in G.

VIOLA 201

Scales: All major and minor (melodic and harmonic) scales in thirds, sixths, and octaves, one note to each bow and two notes slurred, through two octaves. Chromatic scales, through two octaves, beginning on any note.

Arpeggios: All major and minor chords through three octaves. In octaves through two octaves. Dominant and diminished seventh chords in all keys through three octaves.

Prepared Pieces: Any two studies from the books of Campagnoli, Gavinies, Paganini.

VIOLA 210

Scales and Arpeggios: The same as for Viola 201.

Prepared Pieces: The same as for Viola 201. Candidates must also perform one selection from each of the following groups:

- I. Sonatas — Boccherini, Sonata in G; Schubert, Arpeggione Sonata.
- II. Suite or Concerto — J. Chr. Bach, Concerto; Handel, Concerto; Tchemberdchy, Suite; Vaughan Williams, Suites (any one of three).

VIOLA 301

Prepared Pieces: The performance of a previously approved sonata recital programme of approximately one hour duration, consisting of classical, romantic, and contemporary works. After the examination a public recital may be required. Suggested works: Bach, Gamba Sonatas; Brahms, Sonata in E flat; Brahms, Sonata in F minor; Honegger, Sonata; Marcello, Sonata in F; Milhaud, Sonata No. 1; Vitali, Chaconne.

VIOLA 302

Scales and Arpeggios: Knowledge and demonstration of underlying technical principles involved in the performance of all scales and arpeggios of previous grade using at least three different bow groupings.

MUSIC

Prepared Pieces:

Knowledge and demonstration of underlying technical principles involved in the performance of three studies from each of the following: Campagnoli, Gavinies, Paganini.

Pedagogy:

A pedagogical demonstration with young student is required.

VIOLA 310

Prepared Pieces:

The performance from memory of a previously approved recital programme lasting one hour. After examination, a public recital is required. The order of the programme should be as follows:

- (1) Unaccompanied Suite — e.g. any one of the sonatas of Bach or Hindemith.
- (2) Concerto — e.g. any one of the concertos by Bartok, Serly, or Tansman.
- (3) Group of pieces — e.g. Beethoven, Variations Op. 66; Bloch, Suite; Schumann, Maerchenbilder; Stravinsky, Elegy; Weber, Andante and Rondo Hongroise.

VIOLA 401

The same as Viola 310.

VIOLA 402

Prepared Pieces:

Pedagogy:

The requirements are the same as those for Viola 301.

The candidate will have to give a pedagogical demonstration of instruction with advanced pupil (Viola 10-11). There will be an assessment of results with young student assigned to candidate for regular teaching at the beginning of the year. The candidate will also have to demonstrate his skill in analyzing all technical and musical problems involved in teaching e.g. bowing, fingering, detached and slurred playing, varieties of tone, vibrato, execution of ornaments, phrasing, differences of style according to historical period of composition, differences of teaching methods.

CELLO

CELLO 101

Scales:

All major, minor (melodic and harmonic), and chromatic scales through four octaves. Detached and slurred.

Arpeggios:

All major and minor chords, through three octaves, slurred and detached.

Prepared Pieces:

Candidates must perform any two studies from each of the following books of studies: Duport, Franchomme, Gruetzmacher.

PRACTICAL COURSES—CELLO

CELLO 110

Scales and Arpeggios: The same as for Cello 101.

Prepared Pieces: The same as for Cello 101. Candidates will also have to perform: Bach, Accompanied Gamba Sonata; Saint-Saens, Concerto.

CELLO 201

Scales: All major, minor (melodic and harmonic), and chromatic scales through four octaves, with four different bowings.

Arpeggios: All major and minor chords through three octaves with four different bowings.

Prepared Pieces: Six difficult excerpts from the classical and romantic chamber music repertory, e.g. Mozart, Divertimento (String Trio) in E flat; Schubert, Piano Trio in B Flat, etc.

CELLO 210

Scales and Arpeggios: The same as for Cello 201.

Prepared Pieces: The same as for Cello 201. Candidates will also have to perform a sonata by Beethoven or Brahms, or the Concerto of Lalo.

CELLO 301

Prepared Pieces: The performance of a previously approved sonata recital programme of approximately one hour duration consisting of classical, romantic, and contemporary works. After the examination, a public recital may be required. Suggested works: Bach, any of the accompanied gamba sonatas; Beethoven: any of the sonatas or variations; Brahms, either of the two sonatas; a sonata by Kodaly, Prokofieff, Shostakovitch, (accompanied).

CELLO 302

Scales and Arpeggios: Knowledge and demonstration of underlying technical principles involved in the performance of all scales and arpeggios of previous grades, as well as three-octave scales in thirds and sixths.

Prepared Pieces: Knowledge and demonstration of underlying technical principles involved in any two works selected from each of the following books of studies: Hugo Becker, Duport, Franchomme, Gruetzmacher, Popper (High School of Cello Playing).

Pedagogy: A pedagogical demonstration with young student is required.

MUSIC

CELLO 310

Prepared Pieces:

Three studies from each of the following: Hugo Becker, Popper. In addition, the candidate will have to perform a previously approved recital programme of approximately one hour duration. Suggested works:

- (1) Any of the unaccompanied Bach suites.
- (2) Any of the following concertos: Boccherini, Dvorak, Haydn, Lalo, Saint-Saens, Schumann.
- (3) Bloch, Pieces from Jewish Life; Cassado, Suite; Nin, Suite; Popper: selected group of pieces.

A public recital is also required.

CELLO 401

The same as Cello 310.

CELLO 402

Prepared Pieces: Pedagogy:

The requirements are the same as for Cello 301.

The candidate will have to give a pedagogical demonstration of instruction with advanced pupil (Cello 11). There will be an assessment of results with young student assigned to candidate for regular teaching at the beginning of the year. The candidate will also have to demonstrate his skill in analyzing all technical and musical problems involved in teaching, e.g. bowing, fingering, detached and slurred playing, varieties of tone, vibrato, execution of ornaments, phrasing, differences of style according to historical period of composition, differences of teaching methods.

DOUBLE BASS

DOUBLE BASS 101

Progressive bow- and finger-technique exercises. Bach, Arioso; Eccles, Sonata; Fauré, Après un rêve. Schubert, Octet and "Trout" Quintet.

DOUBLE BASS 201

Dragonetti, Concerto. The study of orchestral parts from: Mozart, Magic Flute and Marriage of Figaro; Mozart, Symphony No. 39; Weber, Overtures to Euryanthe and Oberon; R. Strauss, Till Eulenspiegel.

DOUBLE BASS 301

Koussevitzky, Concerto; Nanny, Caprice No. 1. Prokofiev, Quintet. R. Strauss, Death and Transfiguration.

DOUBLE BASS 401

Simandl, Gradus ad Parnassum (Twenty-Four Studies). Mozart, Per questa bella mano-Obbligato for Double Bass and Voice; R. Strauss, Don Juan; Stravinsky, Pulcinella. Orchestral excerpts: Bach, Suite in B Minor; Bruckner, Symphonies; Wagner, excerpts.

PRACTICAL COURSES—FLUTE

FLUTE

FLUTE 101

Anderson, *Etudes* Op. 15 and 33; Barrere, *The Flutist's Formulae*; Boehm, 24 *Caprices* Op. 26; Moyse, *Scales and Arpeggios*. Chamber Music of the 17th and 18th century; sonatas by Bach; concertos by Gluck, Gretry and Haydn. Easier contemporary pieces.

FLUTE 201

Andersen, *Etudes* Op. 30 and 63; Hughes, 24 *Studies*; Moyse, *Technical Studies and Exercises*. Bach, *Suite in B Minor* and *Brandenburg Concerto No. 5*; concertos by Mozart; quartets and trios by Mozart and Beethoven. Debussy, *Syrinx*; Fauré, *Fantasia*; Ibert, *Piece for Solo Flute*; and similar pieces.

FLUTE 301

Andersen, *Virtuoso Studies* Op. 60; Kohler, 8 *Exercises* Op. 33 Book 111; Moyse, *Daily Exercises*; Taffanel-Gaubert, *Grandes Etudes de Virtuosité*. Paris Conservatory Pieces. Schubert, *Variations*. Study of orchestral solo passages.

FLUTE 401

Andersen, *Virtuoso Studies* Op. 60; Moyse, 48 *Studies of Virtuosity*. Ibert, *Concerto*. Modern flute solos. Study of orchestral solo passages.

FLUTE 110, 210, 310

The contents of these courses will consist of the material of Flute 101, 201, 301 and 401 condensed into three years instead of four.

OBOE (English Horn)

OBOE (ENGLISH HORN) 101

Brod, *Six Advanced Sonatas*; Ferling, *Forty-Eight Studies*; Haendel, *Sonata in G minor*.

OBOE (ENGLISH HORN) 201

Andraud, *Vade-Mecum*, and other studies. Haendel, *Concerto in G Minor*; Telemann, *Sonata in A Minor*. Orchestral repertoire.

OBOE (ENGLISH HORN) 301

G. Gillete, *Advanced Studies*. Mozart, *Concerto in C Major*, and *Quartet for Oboe and Strings*. Orchestral repertoire continued.

OBOE (ENGLISH HORN) 401

Eugene Bozza, *Studies*; Hugo-Bruyany, *Studies*; R. Lamorlette, *Twelve Studies*. Beethoven, *Quintet*; Gordon Jacob, *Concerto*; Mozart, *Quintet*; Vaughan-Williams, *Concerto*. Orchestral repertoire continued.

OBOE (ENGLISH HORN) 110, 210, 310

The contents of these courses will consist of the material of Oboe 101, 201, 301, and 401 condensed into three years instead of four.

CLARINET

CLARINET 101

All major, minor (melodic and harmonic) and chromatic scales and all arpeggios (common chords, dominant and diminished seventh chords) to be played tongued or slurred and phrased (grouped). Transposition

MUSIC

of a given passage one tone up, and a half tone down. P. Mimart, *Studies for Clarinet*; A. Perrier, *Recueil de sonates pour l'étude du style classique* (Books I, II, III). Messenger, *Solo de Concours*; H. Rabaud, *Solo de Concours*; Weber, *Concertos 1 and 2*. McGinnis, *Orchestral Excerpts, Volumes I and II*.

CLARINET 201

Scales and arpeggios as in Clarinet 101. Transposition of a given passage one tone up or down. Carl Baermann, *Method* (Books 3, 4, and 5); V. Blancon, *40 Etudes*; Paul Jeanjean, *16 Etudes*; A. Perrier, *20 Studies of Virtuosity*. Beethoven, *Trio for Clarinet, Cello and Piano*; Brahms, *Sonatas 1 and 2*; P. Gaubert, *Fantaisie pour clarinette et piano*; Mozart, *Trio for Clarinet, Viola and Piano*. McGinnis, *Orchestral Excerpts, Volumes I and II*.

CLARINET 301

E. Bozza, *14 Etudes de mécanisme*; A. D. Elia, *12 Studies*; A. Perrier, *22 Etudes modernes*. Brahms, *Trios for Clarinet*; Debussy, *Rapsodie pour clarinette et orchestre*; Louis Spohr, *concertos*; Robert Stark, *concertos*; C. M. Widor, *Introduction and Rondo*. Also orchestral repertoire.

CLARINET 401

Transposition of a given passage a minor third up or down. Improvisation of a cadenza. N. Delecluse, *Studies on Orchestral Passages*; Paul Jeanjean, *18 Etudes*. Mozart, *Quintet for Clarinet and Strings*; also quintets of Arthur Bliss, Brahms, Gordon Jacob. Clarinet concertos by Mozart, Busoni, C. Nielsen, Darius Milhaud, Aaron Copland, Nicola Berezovsky.

CLARINET 110, 210, 310

The contents of these courses will consist of the material of Clarinet 101, 201, 301, 401, condensed into three years instead of four.

SAXOPHONE

SAXOPHONE 101

Labanchi-Iasilli, *Books I and II*; Terschak, *Daily Exercises*. Transpositions. Advanced solos.

SAXOPHONE 201

Ferling, *60 Etudes*; Soussman, *Etudes* (Vol. II). Bozza, *Concertino, Suite* (Scaramouche, Aria, Pulcinella); Preliminary exercises for top notes.

SAXOPHONE 301

Boehm-Terschak, *53 Etudes*. P. M. Dubois, *Concertstueck*; Glazounov, *Concerto*; H. Tomasi, *Ballade*.

SAXOPHONE 401

Advanced scales and exercises for top notes. E. Bozza, *12 Caprices*; Ibert, *Concertino da camera*.

SAXOPHONE 110, 210, 310

The contents of these courses will consist of the material of Saxophone 101, 201, 301, and 401 condensed into three years instead of four.

PRACTICAL COURSES—BASSOON

BASSOON

BASSOON 101

Review of previous grades. E. Jancourt, 26 Melodic Studies. Hindemith, Sonata. Orchestral studies.

BASSOON 201

Gambaro, 18 Studies; Giampieri, 16 Daily Studies; Milde, Concert-Studies (Book 1). Concerti by Vivaldi and Mozart. Orchestral studies.

BASSOON 301

Dherin-Pienné, New Technique of the Bassoon; Milde, Concert-Studies (Book II); A. Orefici, Bravura Studies. L. Grondahl, Concerto; Gordon Jacob, Concerto (1947); Weber, Concerto. Orchestral studies.

BASSOON 401

Bertoni, 12 Modern Studies; Marcel Bitsch, Twenty Studies; Bozza, 15 Daily Studies; Piard, 16 Characteristic Studies. Bozza, Fantaisie. Orchestral repertoire.

BASSOON 110, 210, 310

The contents of these courses will consist of the material of Bassoon 101, 201, 301, and 401 condensed into three years instead of four.

TRUMPET

TRUMPET 101

All major and minor scales and arpeggios, to be played slurred, single, double and triple tongued. Sachse, Etudes for Trumpet (No. 12 with transpositions to C, D, E flat, E and F); St. Jacome, Method for Trumpet (No. 8, Artistic Study). Haydn, Concerto for Trumpet.

TRUMPET 201

All major and minor scales and arpeggios to be played slurred, single, double and triple tongued. Charlier, Articulation Exercises (Nos. 3, 5, and 23); Sachse, Etudes for Trumpet (Nos. 1-30, with transpositions to include A, C, D and E flat). Orchestral excerpts for trumpet: Volumes I and II of Wagner's Works; (Breitkopf) Volume I of Strauss's Works (Peters).

TRUMPET 301

Sachse: Etudes for Trumpet (Nos. 1-60, with transpositions to include A, A flat, B, C, D, E flat, E and F). Georges DeLarue, Concertino; Georges Enesco, Legende. Orchestral Excerpts: Same as Trumpet 201; also Volumes I, II, and III of Orchestral Studies of Classical and Modern Works (Bartoldi, ed.)

TRUMPET 401

Sachse, Etudes for Trumpet (Nos. 1-100, with transpositions to C, D flat, D, E flat, E, F, G, A flat, A, B). Obligato playing. Marcel Bitsch, Quatre Variations Sur Un Thème de Domenico Scarlatti; E. Bozza, Concertino; Jacques Ibert, Impromptu; Saint-Saëns, Fantaisie en mi bémol. Orchestral Excerpts; same as Trumpet 301; also Volumes IV and V of Orchestral Studies of Classical and Modern Works (Bartoldi ed.)

TRUMPET 110, 210, 310

The contents of these courses will consist of the material of Trumpet 101, 201, 301, and 401 condensed into three years instead of four.

MUSIC

FRENCH HORN

FRENCH HORN 101

All major, minor and chromatic scales, all arpeggios, each through one octave range. Studies in two clefs.

FRENCH HORN 201

Extension of range in all scales and arpeggios. Diminished seventh chords. Double tonguing, preparatory exercises in trills, use of mute, ability to read in four clefs. Dubois, Cavatina; Franz Strauss, Concerto. Simple orchestral excerpts.

FRENCH HORN 301

Major and minor scales in thirds; arpeggios, dominant and diminished seventh chords and their resolutions. Slurred and staccato, over a range of two octaves. Use of lip trill. Double and triple tonguing in chromatic and diatonic intervals. Mozart concertos. Further studies of orchestral repertory.

FRENCH HORN 401

All transpositions. Standard orchestral and sole repertoire. Dukas, Villanelle; Mozart and Haydn concertos; Mozart, Concert Rondo.

FRENCH HORN 110, 210, 310

The contents of these courses will consist of the material of French Horn 101, 201, 301, and 401 condensed into three years instead of four.

TROMBONE (Tuba)

TROMBONE (TUBA) 101

Lip slurs in all positions. All forms of tonguing. Introduction of alternate positions. Scales and arpeggios (tonic, dominant and diminished seventh chords). Kopprasch, Book I.

TROMBONE (TUBA) 201

Special emphasis on tone, attack, lip slur. Introduction of tenor and alto clefs. Scales and arpeggios. Blume, Books I and II; Rochut, Book I.

TROMBONE (TUBA) 301

Blasewitsch, 26 Sequences (Rhythm and Clefs); Blume (Book III); Kopprasch (Book II); Rochut (Book II). Pieces and orchestral repertory of easy and medium difficulty.

TROMBONE (TUBA) 401

Advanced methods. Rochut (Book III). Brass Ensemble. Orchestral repertoire.

TROMBONE (TUBA) 110, 210, 310

The contents of these courses will consist of the material of Trombone (Tuba) 101, 201, 301, and 401 condensed into three years instead of four.

PERCUSSION

PERCUSSION 101

Snare drum: Completion of Podemski's Snare Drum Method. Mallets (all phonetic instruments which are struck): Completion of W. Dorn Method, and one solo piece. Timpani: Goodman Method (Section II, up to No. 40) and one solo piece.

PERCUSSION 201

Snare drum: Wilcoxon, All American Drummer (selected exercises)

PRACTICAL COURSES—PERCUSSION

Study of Bass Drum and Cymbal. Technique of all small instruments such as castagnettes, tambour de basque, etc. Mallets: Goldenberg, Selected Exercises. Orchestral repertoire and one solo piece. Timpani: completion of Goodman Method. Tscherepnine: Sonata, and another repertory piece.

PERCUSSION 301

Snare drum and percussion instruments: orchestral repertory. Mallets: Goldenberg Method; studies and repertory. Bach, Concerto in A (two movements). Sight-Reading. Timpani: Goodman Method (Part III). Orchestral repertory including symphonies by Mozart, Beethoven, Mendelssohn, and Brahms; also R. Strauss, Don Juan.

PERCUSSION 401

Snare drum and percussion instruments: general repertory. Mallets: Goldenberg: all repertory and one solo piece. Timpani: general repertory. Special tuning exercises. Striegler, Concerto.

PERCUSSION 110, 210, 310

The contents of these courses will consist of the material of Percussion 101, 201, 301, and 401, condensed into three years instead of four.

HARP

HARP 101

Studies: Bochsa, Cinquante Etudes, Book I (any two).

Prepared Pieces:

One obligatory, and two further selections from the following list: Bach-Grandjany, Allemande (No. 2 from Transcriptions Classiques); Bach-Grandjany, Rondo (No. 3 from Six Pieces Classiques); Couperin-Renie, Tic Tac Toc; Damase, Concertino; Grandjany, Colorado-Trail; Handel-Grandjany, Concerto in B Flat; Haydn-Renie, L'Egyptienne; Salzedo, Variations dans le style ancien; Sammartini-Grandjany, Allegretto (No. 4 from Transcriptions Classiques); Tournier, Theme and Variations; Widor, Chorale and Variations; Zabel, La Source.

N.B. Obligatory selection: choice of Damase, Handel-Grandjany, or Widor in above list.

HARP 201

Studies: Bochsa, Cinquante Etudes, Book II (any two). Orchestral repertoire.

Prepared Pieces:

One obligatory, and two further selections from the following list: Bach-Renie, Bourree (from Les Classiques de la Harpe, 3eme recueil); Couperin-Grandjany, La Compere (No. 3 from Transcriptions Classiques); Debussy, Clair de Lune; Grandjany, Rhapsodie; Grandjany, Dans la forêt du charme et de l'enchantement; Ravel, Introduction and Allegro; Renie, Allegro from the Concerto in C minor; Tournier, Sonatine, Op. 30; Tournier, Vers la source dans le bois; Pierre, Concert-stueck; Prokofieff, Prelude; Salzedo, La Desirade.

N.B. Obligatory selection: choice of Ravel, Renie, or Pierre in above list.

HARP 301

Studies: Dizi, 48 Etudes (any two). Orchestral repertoire.

MUSIC

Prepared Pieces:

One obligatory, and two further selections from the following list: Debussy, *Danse Sacrée* et *Danse Profane*; de la Presle, *Le Jardin Mouillé*; Fauré, *Impromptu*; Francisque-Grandjany, *Pavane* et *Branle*; Galeotti, *Fantaisie*; Gallon, *Fantaisie*; Handel-Grandjany, *Toccata*; Salzedo, *Chanson dans la Nuit*; Tournier, *Les Anesses Grises* (from 'Images', 3eme Suite); Roger-Ducasse, *Barcarolle*; Mozart, *Concerto* for harp and flute.

N.B. Obligatory selection: choice of Debussy, Faure, or Mozart in above list.

HARP 401

Prepared Pieces:

Four obligatory selections plus any two other pieces from the following list: Bach-Renie, 10 *Preludes* and 10 *Pieces*; Caplet, *Divertissement*, 1. *A La Française*, 2. *A L'Espanole*; Grandjany, *Children's Hour*; John Bull-Grandjany, *The King's Hunt*; Liszt-Renie, *Le Rossignol*; Renie, *Legende 'Les Elfes'*; Respighi-Grandjany, *Siciliana*; Tournier, *Danse du Moujik* (from 'Images', 4eme Suite); Tournier, *Jazz Band*; de Falla-Grandjany, *Danse Espagnole*, from "La Vida Breve"; Tailleferre, *Concertino*; Hindemith, *Sonata*; *Orchestral repertoire*.

N.B. Obligatory selections: any two of Bach-Renie, plus any two chosen from Grandjany, Tailleferre, or Hindemith in above list.

HARP 110, 210, 310

The contents of these courses will consist of the material in Harp 101, 201, 301, 401, condensed into three years instead of four.

ENSEMBLE COURSES

CHAMBER MUSIC 101. Easy duos and trios.

2 hours.

CHAMBER MUSIC 201. Duos and trios of medium difficulty.

2 hours.

CHAMBER MUSIC 301. More difficult trios. Woodwind, brass, and string quartets.

2 hours.

CHAMBER MUSIC 401. Advanced study of quartets and larger groups such as septets, octets, and nonets.

2 hours.

COLLEGIUM MUSICUM 110. A continuation of Collegium Musicum 11. (Please see page 2196.) This course may be applied as credit in the Licentiate programme, or in the First or Second years of the Mus.B. programme in performance.

CONSERVATORIUM ORCHESTRA. Rehearsal and performance of suitable orchestral literature selected from the standard repertoire.

2 hours.

THE JUNIOR DEPARTMENT OF THE MCGILL CONSERVATORIUM OF MUSIC

GENERAL STATEMENT

The Junior Department of the McGill Conservatorium of Music offers preparatory instruction in all instruments and voice, as well as in the theory of music. Theoretical classes, although not obligatory, are nevertheless recommended as an important aid to intelligent and artistic performance. The various subjects differ as to the number of years of preparatory study required. Detailed information is provided in the table on pages 2167-8. Candidates who have succeeded in passing the annual examinations in practical and theoretical subjects are awarded certificates at their respective grade levels.

Students of the Junior Department of the Conservatorium may, with special permission of the Department chairman, participate in certain ensemble courses of the Senior Department, or of the Faculty of Music.

Instruction in certain practical subjects is available during the summer months. Requests for information should be directed to the Secretary of the Conservatorium.

LOCAL CENTRES

In addition to its function as an institution offering courses of musical instruction, the McGill Conservatorium exists as an examining body holding annual examinations in both practical and theoretical subjects at various local centres throughout the Dominion. (The complete list of Local Centres will be found on pages 2197-8). These examinations make it possible for those taking private practical or theoretical instruction, whether in Montreal or in other localities throughout the Dominion, to obtain, free of residence requirements, the grade certificates issued by the Junior Department as well as the diploma of Associate in Music issued by the Senior Department of the Conservatorium (Please refer to pages 2111 and 2126-7). Examinations will be arranged by the Secretary when required and new centres formed upon request. Theoretical examinations at each centre are conducted under the supervision of a local representative of McGill University. All papers will be sent to McGill University itself. Practical examinations are conducted by visiting examiners. Every certificate gained by candidates in any of the public examinations will bear the imprimatur of McGill University.

STUDY COURSES

The Junior Department of the McGill Conservatorium of Music also offers instruction to those who, while not interested in obtaining either grade certificates or diplomas, wish to study practical or theoretical subjects for their cultural or professional value.

ADMISSIONS — AUDITIONS

All applications for admission to the Junior Department of the McGill Conservatorium of Music must be directed to the Secretary of the Faculty of Music, McGill University, 3426 McTavish St., Montreal, Que. (Tel.: VICTOR 4-6311, Local 482.)

MUSIC

All students in the Junior Department are registered as Partials.

Applicants who have had private or other music study elsewhere must arrange for an audition in their practical subject as well as for a theory placement test.

EXAMINATIONS

Sessional Examinations

Final sessional examinations in all theoretical subjects are held in late April and early May. Examinations in all practical subjects take place during the first three weeks of May.

Deferred Examinations

Deferred practical examinations are permitted only in case of illness or other exceptional circumstances. A written request for the deferment of examination must be submitted to the Dean.

Supplemental Examinations

Students who have failed to obtain the passing grade of 60% in any written examination have the choice of: (a) passing a supplemental examination in that subject in the fall; (b) repeating the course.

Local Centre Examinations

Theoretical examinations are held at the local centres on the date of the regular sessional examinations of the Conservatorium. Practical examinations take place during May, June, and July. The regulation concerning deferred examinations applies as well to local centre candidates who also have the privilege of writing supplemental examinations in the event of failure.

Forms of entry for all local center examinations may be obtained from the Secretary of the Faculty of Music, or from either the local honorary representatives or secretaries. A complete list of local centres will be found on pages 2197-8.

CLASSIFICATION OF MARKS

100—95%	Very High Distinction
94—90%	High Distinction
89—80%	Distinction
79—70%	Honours
69—60%	Pass
Below 60	Failure

FEES

TUITION FEES

N.B. The University reserves the right to make changes without notice in the published scale of fees if, in the opinion of the Board of Governors, circumstances so require

The fee for theory classes in the Junior Department is \$20 per session. Fees for practical courses in the Junior Department are scaled according to grade and medium as follows:

MEDIUM	GRADE	
	4,5,6	7,8,9 10,11
Keyboard Instruments	\$126	\$162 \$216
Voice	—	180 216
Violin, Viola, Cello	126	180 216
Other Instruments	—	162 180

EXAMINATION FEES

Examination fees for courses in the Junior Department of the Conservatorium are as follows:

THEORETICAL COURSES:

Grade 7	\$ 2
" 8	4
" 9	6
" 10	8
" 11	10

PRACTICAL COURSES:

Grade 4	\$ 2
" 5	4
" 6	5
" 7	6
" 8	7
" 9	8
" 10	10
" 11	12

LOCAL CENTRES

Fees for local centre examinations are the same as those listed above for Conservatorium (Junior Department) examinations. In the case, however, of examinations leading to the diploma of Associate in Music, Senior Department rates will apply.

DATES OF PAYMENT

TUITION FEES

The University does not issue bills for fees. Fees are due and payable at the Chief Accountant's Office between the hours of 9 a.m. and 4 p.m. (Saturday 9 a.m. to 11 a.m.) on or before October 1st.

Remittance may be made by mail in which case cheques or money orders should be made payable to McGill University, and addressed to the Cashier, Accounting Department, McGill University, Montreal 2, P.Q.

MUSIC

Fees may be paid in two instalments, one at the beginning of the session, the other not later than January 15th. In such cases, the instalment fee of \$5 is charged.

Special fees and penalties for late payment are shown in the General Information pamphlet which accompanies this announcement.

EXAMINATION FEES

All examination fees, including those for local centre examinations, must be paid in advance to the Secretary of the Faculty of Music, McGill University. In the case of local centre examinations, forms of application duly filled in by the candidate and accompanied by the examination fee must reach the Secretary in Montreal on or before April 1st.

ATTENDANCE REGULATIONS

1. All students are required to be punctual at all lessons.
2. The attendance register must be signed by the student after each lesson in a practical subject.
3. Lessons in practical subjects missed in consequence of the instructor's absence will be made up at the mutual convenience of instructor and pupil. Lessons missed in consequence of the pupil's absence will be made up only if notice of cancellation has been given forty-eight hours in advance, or if a doctor's certificate is produced.

PROGRAMME OF STUDIES IN THE CONSERVATORIUM OF MUSIC—JUNIOR DEPARTMENT

Students in the Junior Department of the Conservatorium may take courses in theory or in any of the practical subjects listed on pages 2167-8. Theory instruction, while not obligatory, is recommended to all students of instruments or voice as a means of developing musicianship.

SPECIAL REQUIREMENTS FOR PRACTICAL EXAMINATIONS

Tests in sight-reading, ear training and rudiments of music, form a part of all practical examinations held by the Junior Department of the Conservatorium.

- (a) *Sight-Reading.* The sight-reading tests for all practical subjects involve pieces of not greater difficulty than those prepared for the previous examination. No sight-reading test is given in the initial grade of any practical subject.
- (b) *Ear Training.* Ear tests form part of all practical examinations. A set of graded specimen ear tests will be sent upon request.

JUNIOR THEORETICAL COURSES

- (c) *Rudiments*. The questions on musical rudiments will deal with note and rest values, key and time signatures, and expression marks. Questions on registration in the prepared pieces will be asked at the Organ 10 and Organ 11 examinations.

N.B. Information concerning the distribution of marks in the final practical examination is available to teachers and candidates. Requests for such information should be addressed to The Secretary of the Conservatorium.

COURSES OF INSTRUCTION

N.B. The lowest grade number assigned to the respective subjects in the Junior Department differs according to the number of years of pre-college study required in each case. The final grade number for all subjects in the Junior Department is eleven. The following table lists the various grades of study for each of the subjects offered in the Junior Department curriculum. Pamphlets describing the Local Centre Examination requirements in theoretical and practical subjects may be obtained from the Secretary of the Conservatorium.

I. THEORETICAL SUBJECTS:

Theory 7, 8, 9, 10, 11

II. PRACTICAL SUBJECTS:

Piano	4, 5, 6, 7, 8, 9, 10, 11
Violin	5, 6, 7, 8, 9, 10, 11
Recorder	7, 8, 9, 10, 11
Clarinet	7, 8, 9, 10, 11
Voice	7, 8, 9, 10, 11
Viola (Prerequisite: Violin 6)	7, 8, 9, 10, 11
Cello	7, 8, 9, 10, 11
Double Bass	8, 9, 10, 11
Flute	8, 9, 10, 11
Oboe (English Horn)	8, 9, 10, 11
Bassoon	8, 9, 10, 11
Trumpet	8, 9, 10, 11
Harp	8, 9, 10, 11
Organ (Prerequisite: Piano 9)	8, 9, 10, 11
Harpsichord (Prerequisite: Piano 10)	10, 11
Saxophone (Prerequisite: Clarinet 9)	10, 11
French Horn	11
Trombone (Tuba)	11
Percussion	11

DEPARTMENT OF THEORY

THEORY 7. This class is intended to give young beginners training in the rudiments of aural training, rhythmic reading, and staff notation. The limits set for these skills in the present grade are as follows:

- (a) *Sight Singing*: The ability to sing at sight easy melodic phrases in the key of C major and in the treble clef. Scale degree numbers rather than syllables are used in this grade. The ability to sing, and to identify by ear, perfect and major intervals.
- (b) *Rhythmic Reading*: The ability to articulate easy rhythms in simple meters using rhythmic syllables and the conductor's beat. The rhythms used will involve note and rest values of: one full beat, more than one beat, beat and a half, half beat.
- (c) *Staff Notation*: A knowledge of treble and bass clefs, leger lines (above and below the staff), and enharmonic equivalents. The ability to write one octave of the major scale (in both ascending and descending form) in keys not beyond four sharps or flats and with or without key signatures. The ability to spell (whether orally or on paper) and to identify perfect and major intervals. A knowledge of Italian terms.

1 hour.

THEORY 8. This and the following course provide further training in musical rudiments through aural, keyboard, and notational drills. The following subjects are studied:

- (a) *Rhythm*: Reading and notational drills are used as preparatory training for the solution of rhythmic problems which include a study of the beat and its background in simple and compound meters, rests, meter signatures, barring.
- (b) *Scales*: The scales of C, G, and F major and their relative minors are to be played at the keyboard. Major and minor scales up to five sharps or flats are to be written in G— and F— clefs with or without signatures. Training in aural recognition of scale degrees is stressed.
- (c) *Intervals*: Fluency in interval spelling is an important objective and is to be attained through keyboard, oral, and notational drills.
- (d) *Triads*: Various drills in the spelling of major and minor triads.
- (e) *Musical Terms*.

1 hour.

JUNIOR PRACTICAL COURSES—PIANO

THEORY 9. The study of rudiments is continued in this course as follows:

- (a) *Rhythm*: Drills are provided in both rhythmic reading and staff notation which involve the subdivision of the background of the beat in simple and compound metres, ties, dotted notes, syncopation, mixed metres, and the re-grouping of incorrectly grouped notes.
 - (b) *Scales*: Major and minor scales up to five sharps and flats are to be played at the keyboard, and all major and minor scales are to be written whether with or without key signature and starting at any given scale degree. Further drill in the aural identification of scale degrees whether by number or by functional name is stressed.
 - (c) *Triads & Intervals*: The main objective of this course is the intensive study of the major, minor, diminished, and augmented triads and of the component intervals of these triads. Particular stress is placed upon the spelling, whether oral or written, of root position and inverted triads, as well as upon the ability to construct these triads at the keyboard. Other drills include the four-part disposition of major and minor chords at the keyboard and on staff, as well as the aural recognition of bass and soprano tones of such chords.
- 1 hour.

THEORY 10. Rhythmic training includes more intensive drills in simple, compound and mixed metres and in syncopation. Included as well are problems in barring and in the prefixing of meter signatures. The main emphasis of the present course, however, lies in elementary harmonic training. A preliminary phase of this training involves intensive drill in part-writing problems relating to the connection of triads and the resolution of dominant seventh chords, whether in root position or in inversion, as well as the detection of part-writing errors. Subsequent harmonic training comprises: (a) a study of cadences, sequences, and the principles of chord progression; (b) four-part harmonization of chorale phrases and other simple melodies, as well as of figured and unfigured basses, using diatonic triads other than the mediant in root position and inversion; (c) the composition of an original tune of from four to eight measures with indication of the harmonic background; (d) elementary harmonic analysis.

1 hour.

THEORY 11. Harmonic studies include: (a) part-writing and spelling drills; (b) the use of non-harmonic tones; (c) the resolution of secondary and diminished seventh chords, as well as of the augmented sixth, Neapolitan sixth, borrowed dominants and other altered chords; (d) the harmonization of chorale and other melodies, and of figured and unfigured basses using diatonic triads and dominant sevenths in all positions; (e) the composition of melodies of not more than eight measures in length with added part; (f) harmonic analysis.

1 hour.

DEPARTMENT OF KEYBOARD AND VOCAL MUSIC

PIANO 4

Note: For Ear Test and Sight-Reading requirements see page 2166.

Scales: C, G, F major; A, E, D harmonic minor. Hands separately through one octave, followed by the tonic triad in root position.

MUSIC

- Exercises:* Four short exercises for separate hands.
Prepared Pieces: Four short pieces for both hands.

PIANO 5

Note: For Ear Test and Sight-Reading requirements see pages 2166-7.

Scales: C, G, D, F, B flat major; A, E, B, D, G harmonic minor. Hands separately through two octaves. Suggested speed: two notes to MM100.

Arpeggios: Common chords in root position only, in C, G, D, F, B flat major, and in A, E, B, D, G minor. Hands separately through two octaves starting from the lowest note.

Prepared Pieces⁽¹⁾: Candidates must play one piece from each of the following three groups:

- I. Anon Old English Tune: Over the Hills and Far Away (AM-IV).
- J. S. Bach Chorale in E Minor (BB-I).
Intrata in G Major.
- H. Fiocco La légère (AD-I).
- II. Clementi A Sad Study (AM-VI).
Sonatina Op. 36 No. 3 (second movement) (SSC).
- Mozart Minuet in C Major (AD-I).
- III. Bartok Thirty-Two Piano Pieces (The Little Lane).
Two Short Pieces and Two Little Dances (No. 2).
- C. Le Fleming Squirrel Nutkin, Chester.
- Gretchaninoff Fairy Tale Op. 98 (CB).
- Leslie Paul Suite for Piano (Stately Gavotte).
- Tansman Pour les enfants (Set II, Nos. 1 or 2).
- Healey Willan Alla Marcia and Tempo di Minuetto. G. V. Thompson Ltd.

PIANO 6

Note: For Ear Test and Sight-Reading requirements see pages 2166-7.

Scales: C, G, D, A, F, B flat, E flat major; A, E, B, F sharp, D, G, C harmonic minor. Hands separately and together through two octaves, piano or forte, beginning with highest or lowest note. Suggested speed: two notes to MM 100.

JUNIOR PRACTICAL COURSES—PIANO

Arpeggios: Common chords in root position only, and in the same keys as the above scales. Hands separately and together through two octaves, starting from the lowest note.

Prepared Pieces: Candidates must play one piece from each of the following four groups:

- I. Fifty-Eight Tuneful Technical Studies, E. Schuberth & Co. — Book I, Nos. 11-17 (any one).
- II. J. S. Bach . . . French Suite No. 4 (Gavotte).
March in G Major (GM).
Minuet and Trio in G Minor (AD-II).
Jeremiah Clarke . Ayre in C Major (CP).
J. B. Loeillet . . Minuet in E Minor (CP).
Daniel Purcell . Hornpipe in D Minor (CP).
- III. C. P. E. Bach . Minuet in A Major (An. Mod).
Clementi Sonatina in C, Op. 36, No. 1 (first movement).

¹¹⁾ In certain cases reference will be made to the title of the teaching primer or other collection in which the piece in question may be found. To conserve space, these references appear in the text by means of letter symbols. Roman numerals, when present, signify volume number. The complete titles with publishers' names and letter codes are given below:

- AD — *Airs and Dances*, Boosey and Hawkes.
 AG — *Airs and Graces of the Eighteenth Century*, Oxford University Press.
 An. Mod — *Ancient to Modern*, Boosey and Hawkes.
 AM — *Approach to Music*, Boosey and Hawkes.
 BB — *Bach for Beginners*, Boosey and Hawkes.
 CB — *Children's Book*, E. B. Marks.
 CAOP — *Classical Album of Original Piano Pieces*, Boston Music Co.
 CP — *Contemporaries of Purcell, Hinrichsen*.
 DGG — *Dances Grave and Gay*, Boosey and Hawkes.
 EES — *Early English Sonatinas*.
 EC — *Easy Classics for the first Grade*, Frederick Harris.
 EE — *Easy Elizabethans*, Boosey and Hawkes.
 GM — *Garden of Music*, Novello.
 OEW — *Old English Worthies*, Oxford University Press.
 RC — *Re-Discovered Classics*, Boosey and Hawkes.

Representative selections of piano pieces for all grades in the Junior Department, are published in book form by the McGill Conservatorium of Music and are obtainable at the price of \$1.

MUSIC

- Haydn Allegro, from Sonata No. 9 (AD-II).
Minuet in G Major (AM-VI).
- Mozart Minuet in G Major (CAOP).
Polonaise, from Sonatina in F (RC-I).
- IV. Bartok Mikrokosmos (Nos. 75, 76, or 78).
Thirty-Two Pieces (Play Song, or Poor Goose Thief).
- Eileen R. Gilley Pirates in the Pacific. G. V. Thompson.
- Gretchaninoff Children's Book, Op. 98 (Nos. 9 or 13).
- Kabalevsky A Little Song, International Music Co., N.Y.
- Talivaldis Kenins Horse Ride. G. V. Thompson.
- William Lea Popcorn; The Peanutman. G. V. Thompson.
- Ernest MacMillan Gavotte in F (EC).
- Shostakovitch A Gay Story (An. Mod).
- Tansman Pour les enfants (Set III, Nos. 3 or 4).
- Healey Willan Peter's Book (Peter Enjoys a Swing).

NOTE: The selections in the Elementary Grade Books of the McGill Conservatorium continue to be recognized.

PIANO 7

Note: For Ear Test and Sight-Reading requirements see pages 2166-7.

Scales: All major, harmonic minor, and chromatic scales. Also A, E, B, D, G, C, F melodic minor. Hands together through two octaves, beginning from either highest or lowest note. (Melodic minors from lowest note only.) Forte or piano. Suggested speed: four notes to MM 72.

Arpeggios: Common chords in all major and minor keys in root position only. Hands together through two octaves, beginning on the lowest note.

Prepared Pieces:

Candidates must play one piece from each of the following four groups:

- I. Burgmüller Twenty-Five Easy and Progressive Studies, Op. 100 (any one of Nos. 9, 12, 18).

JUNIOR PRACTICAL COURSES—PIANO

- Czerny One Hundred and Sixty Eight-Measure Exercises, Op. 821 (Nos. 1 and 2, or 12 and 13, or 15 and 18).
Practical Method for Beginners, Op. 599 (Nos. 58 and 59, or No. 61, or Nos. 63 and 67).
- Duvernoy Twenty-Five Elementary Studies, Op. 176 (any one of Nos. 18, 23, 25).
- II. Anon Courante in A Minor (EE).
Anon Siciliano (AG).
Bach Six Little Preludes (No. 2).
Twelve Little Preludes (No. 10).
Byrd Gigg, or Galliard (DGG).
Farnaby Tell Me, Daphne, or Bonnie Sweet Robin (EE).
Handel Fughetta in C.
Suite No. 13 (Gigue).
Lully Minuet (AG).
Stanley Invention (OEW).
- III. Arne Sonata No. 7 in A (last movement).
Attwood Sonatina (EES).
Beethoven Sonatina in F (first or second movement).
Variations on "Ich hab ein kleines Hütchen" (Theme and Var. 1).
Variations on an Original Theme in G Major (Theme and Var. 1 and 3).
Haydn Sonata in C. Hinrichsen Edition, Vol. 101 (Andante).
Hook Rondo Pastorale (EES).
Kuhlau Sonatina in G, Op. 88 No. 2 (Andante Cantabile).
Mozart Variations on "Come un agnel-lo" (Theme and Var. 1).
- IV. Bartok For Children, Vol. I (Nos. 1 or 17).
For Children, Vol. II (Nos. 1 or 20).
Bortkiewicz . . . The Hardy Tin Soldier.

MUSIC

- Elgar Sonatina (Andantino). Keith Prowse, London.
- Grieg Lyric Pieces (Arietta).
- Kabalevsky Children's Pieces Op. 27 (A Little Fairy Tale, or An Old Dance, or Having Fun).
Toccatina in A minor, Op. 27 No. 7.
- Leonard Leacock. Sea Horses. G. V. Thompson.
- Prokofieff Music For Children Op. 65, No. 3.
- Godfrey Rideout. Prelude in F. G. V. Thompson.
- Schubert Ecossaise in B Minor.
- Shostakovitch . . . The Mechanical Doll.

NOTE: The selections in the Junior Grade Book of the McGill Conservatorium continue to be recognized.

PIANO 8

Note: For Ear Test and Sight-Reading requirements see pages 2166-7.

Scales: All major, minor (harmonic and melodic) and chromatic scales. Hands together through four octaves, in similar motion only, beginning on the lowest or highest note. Legato and staccato, piano and forte. Suggested speed: four notes to MM 92 legato, and MM 72, staccato.

Arpeggios: All major and minor common chords, with inversions, through four octaves, beginning on the lowest note.

Prepared Pieces: Candidates must play one selection from each of the following five groups:

- I. Bertini-Germer Fifty Selected Studies (any one of Nos. 7, 12, 15, 17, 22).
- Czerny Preliminary School of Finger Dexterity Op. 636 (any one of Nos. 5, 6, 10, 17).
School of Velocity, Book I, Op. 299 (any one of Nos. 1, 2, 4).
- Heller Twenty-Five Melodious Studies, Op. 45 (any one of Nos. 11, 18, 19, 23).
- II. Bach Two-Part Inventions (No. 1 in C, or No. 4 in D Minor).
Six Little Preludes (No. 6).
Twelve Little Preludes (No. 5).
- Byrd Courante, or Martin sayd (DGG).

JUNIOR PRACTICAL COURSES—PIANO

- Handel Suite No. 14 (Air).
Suite No. 16 (Allemande).
- Martini Sonata in E (Andantino).
Chester, Ltd.
- Purcell Suite No. 3 in G Major (Cour-
rante). Schirmer.
- Rutini Sonata in F (Rondo). Chester,
Ltd.
- III. Beethoven Sonata Op. 49, No. 2
(first movement).
Bagatelle in G Minor, Op. 119
No. 1.
Bagatelle in D Minor, Op. 33
No. 6.
Variations on 'Nel cor più'
(Theme and Var. 1 and 2).
- Camidge Finale (EES).
- Clementi Sonatina in E Flat, Op. 37
No. 1 (first movement).
Sonatina in G, Op. 36 No. 2
(first movement).
Sonatina in F, Op. 38 No. 3
(first movement).
- Hook Sonatina (EES).
- Jones Sonatina (EES).
- Kuhlau Sonatina in C, Op. 55 No. 1
(first movement).
Sonatina in G, Op. 35 No. 2
(first movement).
Sonatina in G, Op. 88 No. 2
(first movement).
- Mozart Minuet in D, K. 355.
- IV. Chopin Preludes (Nos. 4 or 6).
Mazurka Op. 7 No. 2.
- Elgar Sonatina (Allegro). Keith
Prowse, London.
- Liszt Consolations (Nos. 1 or 4).
- Mendelssohn . . . Children's Pieces, Op. 72 (No.
2 or 3).
- Schumann Forest Scenes
(Lonely Flower).
Scenes from Childhood
(The Bogey Man).

- V. Bartok For Children, Vol. I (any one of Nos. 5, 6, 8, 27).
For Children, Vol. II (any one of Nos. 6, 8, 18).
- Bortkiewicz . . . The Nightingale.
- Kabalevsky . . . Children's Pieces Op. 27 (any one of: Etude, A Little Joke, Sonatina, Dance).
- Karganoff . . . Scherzino in A Major, Op. 21 No. 6. Harris & Co.
- Prokofieff . . . Children's Suite Op. 65 (any one of Nos. 2, 4, 10).

PIANO 9

Note: For Ear Test and Sight-Reading requirements see pages 2166-7.

Scales: All major, harmonic minor, and chromatic scales, in similar motion through four octaves and contrary motion through two octaves, beginning with the lowest or highest note. All melodic minors in similar motion only. Also all major scales at the interval of a third. Forte and piano, legato and staccato. Suggested speed: legato — four notes to MM 108; staccato — four notes to MM 82.

Arpeggios: All major and minor common chords, with inversions, through four octaves, beginning with the lowest or highest note. Also dominant seventh chords in root position and from lowest note only through four octaves. Forte and piano, legato and staccato. Suggested speed: legato — four notes to MM 100; staccato — four notes to MM 72.

Prepared Pieces: Candidates must play one selection from each of the following five groups:

- I. Bertini-Germer . . . Fifty Selected Studies (any one of Nos. 39, 43, 48, 49).
- Cramer-Buelow . . . Fifty Selected Studies (Nos. 1 or 19).
- Czerny Preliminary School of Finger Dexterity Op. 636 (any one of Nos. 1, 2, 7, 14, 21).
School of Velocity Op. 299, Book I (any one of Nos. 5, 6, 7, 8).
- II. Bach Two-part Inventions (any one of: No. 6 in E, No. 11 in G Minor, No. 13 in A Minor, No. 14 in B Flat).
Three-part Inventions (No. 7 in E Minor).
- Handel Suite No. 7 (Allegro or Andante).

JUNIOR PRACTICAL COURSES—PIANO

- Paradies Sonata in B Flat (Andante).
Purcell Suite No. 2 (Prelude).
Suite No. 5 (Prelude).
Scarlatti Sonata No. 13 (Pastorale).
- III. Beethoven Sonata Op. 49 No. 1 (either
movement).
Bagatelle in E Flat Op. 126,
No. 3.
Variations on "La stessa, la
stessissima" (Theme and
Finale).
Clementi Sonatinas: Op. 38 No. 1 in G,
Op. 36 No. 6 in D, Op. 36 No. 3
in C (any of the first move-
ments).
Dussek Rondo in E Flat.
Haydn Sonata in G — Peters edition,
No. 11 (first movement).
Kuhlau Sonatina in C, Op. 20 No. 1
(first or third movement)
Mozart Sonata in G, K. 283 (second
movement).
Fugue in G Minor, K. 154
- IV. Chopin Prelude No. 10.
Mazurka in C Sharp Minor
Op. 6 No. 2.
John Field Nocturne No. 5 in B Flat
Grieg Lyric Pieces Op. 43 (No. 1
or No. 4).
Liszt Consolations (No. 2)
Mendelssohn . . . Christmas Pieces (No. 5 in G
Minor).
Tarantella in C Major.
Palmgren Maynight.
Schubert Waltzes (any three)
Schumann Forest Scenes Op. 82 (No. 1)
Scenes from Childhood (Nos. 3
and 4).
Eric Thiman . . . Musical Sketch Book
(Silent Pool).
- V. Violet Archer . . Habitant Sketches (No. 2).
Bartok For Children, Vol. I
(Nos. 38 and 40).

Debussy	Children's Corner (The Little Shepherd, or Golliwog's Cake-walk). Preludes (La plus que lente).
H. Ferguson . . .	Five Bagatelles (No. 2).
Grovez	La Sarabande.
Levine	Humoresque.
Liadov	The Music Box.
MacDowell . . .	Shadow Dance.
O. Pinto	March, Little Soldier.
Rebikov	Danse des clochettes.
Spendiarov . . .	Berceuse Op. 3 No. 2.
J. Turina	The Circus (No. 5).

NOTE: The selections in the Intermediate Grade Books of the McGill Conservatorium continue to be recognized.

PIANO 10

Note: For Ear Test and Sight-Reading requirements see pages 2166-7.

Scales:

All major, minor (harmonic and melodic) and chromatic scales, in similar and contrary motion, beginning with the lowest or highest note. Also all scales at the interval of a third, sixth or tenth, through four octaves, in similar motion only. Forte and piano. Legato and staccato. Suggested speed: legato — four notes to MM 120; staccato — four notes to MM 90. Also broken octaves, hands separately, in all keys, through two octaves. Suggested speed: four notes to MM 60.

Arpeggios:

Major and minor common chords through four octaves, beginning with the lowest or highest note (root position and inversions). Dominant and diminished sevenths in root position and inversions, beginning with the lowest note only. Forte and piano, legato and staccato.

Prepared Pieces:

Candidates must play one selection from each of the following five groups:

- I. Cramer-Buelow Fifty Selected Studies (No. 10).
Czerny School of Velocity, Book I, Op. 299 (No. 9).
School of Velocity, Book II, Op. 299 (No. 1).
- II. Bach Three-part Inventions (any one).
Couperin Suites (any two movements).
Rameau Suites (any two movements).

- | | |
|------------------------|---|
| Scarlatti | Sonatas (any one). |
| Telemann | Fantasias (any one). |
| III. Beethoven | Sonata Op. 49 No. 1. |
| Beethoven-Busoni | Six Ecossaises. |
| Haydn | Sonata in E Minor, No. 2.
(first, or second and third,
movement). |
| | Sonata in D Major, No. 7.
(first, or second and third,
movement). |
| Mozart | Sonata in G, K. 283 (first or
last movement). |
| | Sonata in C, K. 545 (first or
last movement). |
| | Sonata in F, K. 547 (first or
last movement). |
| IV. Brahms | Waltzes, Op. 39 (any two).
Intermezzo in A Minor, Op. 76,
No. 4. |
| Chopin | Three Ecossaises.
Mazurkas (Op. 30, Nos. 1 and
2, or Op. 67, Nos. 2 and 4).
Waltz in B Minor and Minute
Waltz.
Nocturne in F Minor Op. 55,
No. 1. |
| Faure | Song Without Words Op. 17. |
| Liszt | Consolation No. 3 in D Flat. |
| Mendelssohn . . | Songs Without Words (any
two of: Nos. 1, 14, 25, 29, 36). |
| Schubert | Impromptu in A Flat, Op. 142,
No. 2.
Moments Musicaux, Op. 94,
Nos. 1 and 2. |
| Schumann . . . | Scenes from Childhood
(any two pieces). |
| Schumann . . . | Romance in F Sharp Major. |
| V. Bartok | Three Rondos on Folk Tunes
(any one). |
| Lennox Berkeley. | Five Short Pieces (1937) —
Chester Ed. |
| Debussy | Arabesque (No. 1 or 2).
Preludes, Vol. I (No. 1, Dan-
seuses de Delphes). |
| De Falla | Serenata Andaluza. |

MUSIC

Ibert	Little White Donkey.
Kabalevsky	Variations Op. 40, No. 1.
Martinu	Etudes and Polkas, Vol. 3 (Polka in A Minor).
Pinto	Memories of Childhood (Nos. 1 and 5).
Poulenc	Valse.
Prokofieff	Gavotte in F Sharp Minor, Op. 32.

NOTE: The selections in the Senior Grade Books of the McGill Conservatorium continue to be recognized.

PIANO 11

Note: For Ear Test and Sight-Reading requirements see pages 2166-7.

Scales: Major, minor (harmonic and melodic), and chromatic scales in all keys, at the octave, third, sixth or tenth, with staccato or legato touch, and beginning from either the highest or lowest note. In similar and contrary motion. Also broken octaves in all keys through two octaves, hands together.

Arpeggios: Common chords, dominant and diminished seventh chords in all positions at the interval of an octave, starting on the highest or lowest note, with staccato and legato touch.

Note: Scales and arpeggios should be played at as fast a speed as is consistent with clarity and accuracy and without group accentuation.

Prepared Pieces:

Candidates must play any two etudes from group I, and one selection from each of the succeeding four groups:

- I. Clementi Gradus Ad Parnassum.
Cramer-Buelow Fifty Selected Studies (from Nos. 13, 14, 16, 21).
Czerny School of Velocity, Vols. III and IV.
- II. Bach Well-Tempered Clavier (Book I: No. 5 in D Major or No. 20 in A Minor).
Well-Tempered Clavier (Book II: No. 12 in F Minor or No. 21 in B Flat Major).
Galuppi Sonata in D Major.
Handel Blacksmith Variations.
Suite in G Minor (Chaconne).
Scarlatti Sonatas (any one).
- III. Beethoven Sonata Op. 2 No. 1 (last movement).

JUNIOR PRACTICAL COURSES—PIANO

- Sonata Op. 14 No. 1
(first movement)
Sonata Op. 14 No. 2
(first or last movement)
Sonata Op. 79 (first, or second
and third movements).
- Haydn Sonata in E Flat Major (first,
or second and third move-
ments).
- Mozart Sonata in F Major, K. 494
(first or last movement).
Sonata in A Major, K. 331
(theme and variations).
Concerto in G Major, K. 453
(first movement with Mozart
cadenza).
- IV. Brahms Intermezzi (Op. 76, No. 3 or 6;
Op. 117, No. 1; Op. 118, No. 2;
Op. 119, No. 2).
Ballade Op. 118 No. 3.
- Chopin Preludes (any two from:
Nos. 1, 4, 9, 10, 15, and 22).
Impromptu in A Flat, Op. 29.
Bolero Op. 19.
Nocturne in B Major, Op. 32
No. 1.
Polonaise in C Sharp Minor
Op. 26 No. 1.
- Dohnanyi March in E Flat Major.
- Liszt Valse oubliée.
- Mendelssohn Songs Without Words (Nos.
3, 18, or 34).
Scherzo in E Minor.
- Schubert Impromptu Op. 90 No. 2, in
E Flat Major.
Impromptu Op. 90 No. 4, in
A Flat Major.
- Schumann Arabesque Op. 18.
Romance in F Sharp Major.
- V. Albeniz Sevillanas.
- Bartok Hungarian Peasant Songs (any
two).
Mikrokosmos, Vol. V
(any three).
- Debussy Suite Bergamasque (Prelude or
Minuet).
Preludes, Vol. I (No. 12).
Children's Corner (any one
from Nos. 1, 2, 3, 4).

MUSIC

How. Ferguson . . .	Five Bagatelles.
Moussorgski . . .	Gopak.
Prokofieff . . .	Prelude Op. 12 No. 7.
Saint-Saens . . .	Bourree for the Left Hand Alone.
Tcherepnine . . .	Bagatelles Op. 5 (any two).

NOTE: The selections in the Highest Grade Books of the McGill Conservatorium continue to be recognized.

ORGAN

ORGAN 8

Prerequisite: Piano 9.

Note: For Ear Test and Sight-Reading requirements see pages 2166-7.

Scales:

C, G, D, E, E flat, and F in both major and harmonic minor:

- manually only, hands separately and together, through two octaves, in similar motion;
- pedals only, upper or lower octave, as required by the examiner.

Prepared Pieces:

Candidates must have prepared the whole of either:
—List A: Buxtehude, Nun bitten wir (TEOM)⁽¹⁾; Purcell-Fricker, A Purcell Suite (Rondeau in D Minor); Tallis, Gloria tibi trinitas (TEOM); *or*
—List B: Bach, Fughetta on "Gottes Sohn ist kommen" (XVIII⁽²⁾, p. 41); Bach, Liebster Jesu, wir sind hier (XVIII, p. 72); John Stanley-Wall, Three Eighteenth Century Preludes (Trio).

ORGAN 9

Note: For Ear Test and Sight-Reading requirements see pages 2166-7.

Scales:

All major, minor, and chromatic scales:

- manually only, hands together, through three octaves, in similar and contrary motion, starting on either the lowest or highest note;
- pedals only through one octave.

Technical Studies:

Nilson, Technical Studies in Pedal Playing — Part II, Section I.

Prepared Pieces:

Candidates must have prepared either:
—List A: Bach, Erbarm dich mein, o Herre Gott (XVIII, p. 35); de Grigny, Dialogue in F Major (AEFOM)⁽³⁾; John James, Echo Voluntary; *or*
—List B: Bach, Fugue in D Major (XII, p. 83); Mendelssohn, Sonata No. 1 (Adagio); Vaughan Williams, Three Preludes on Welsh Hymns (Rhosymedre).

⁽¹⁾ i.e. Treasury of Early Organ Music, Music Press Inc.

⁽²⁾ Bracketed Roman numerals in the present section (ORGAN) refer to volume numbers in the recommended Novello edition of Bach's organ works.

⁽³⁾ i.e. Anthology of Early French Organ Music, H.W. Gray.

JUNIOR PRACTICAL COURSES—ORGAN

ORGAN 10

Note: For Ear Test and Sight-Reading requirements see pages 2166-7.

- Scales:**
- (a) Manuals: all major and minor (both forms), and chromatic scales, hands together through three octaves in similar and contrary motion. (Melodic minors in similar motion only.)
 - (b) pedals only: C, D flat, D, E flat, E, and F through two octaves.

Technical Studies:

Nilson, Technical Studies in Pedal Playing — Part II, Section II, (Nos. 1-9 incl.). Part II, Section III, (Nos. 1-7 incl.).

Prepared Pieces:

Candidates must have prepared either:
—List A: Bach, Concerto No. 1 (Vol. XI, p. 49); François Couperin, Elevation (AEFOM); Darius Milhaud, Neuf Préludes (any two) — Heugel; *or*
—List B: Bach, Nun komm der Heiden Heiland (Vol. XVII, p. 46); Handel, Concerto No. 13 (first and second movements); Healey Willan, Epilogue — Novello.

ORGAN 11

Note: For Ear Test and Sight-Reading requirements see pages 2166-7.

- Scales:**
- All major, minor (both forms), and chromatic scales played at varying degrees of speed:
- (a) manuals only, hands together, at octave, third, and sixth for three octaves;
 - (b) pedals only, through one and two octaves;
 - (c) combined: one hand and pedals combined, in similar and contrary motion, from the octave or unison through one and two octaves.

Technical Studies:

Nilson, Technical Studies in Pedal Playing — Part II, Section II (Nos. 20-59 incl.), Part II, Section III (Nos. 8-28 incl.).

Prepared Pieces:

Candidates must have prepared either:
—List A: Bach, Sonata No. 1 (first movement); Brahms, Chorale Prelude: Herzlich thut mich erfreuen; Herbert Howells, Master Tallis' Testament; *or*
—List B: Bach, Herr Jesu Christ, dich zu uns wend (XVII, p. 26); Benjamin Britten, Prelude and Fugue on a theme of Vittoria; Louis Couperin, Chaconne (AEFOM).

HARPSICHORD

Note: For Ear Test and Sight-Reading requirements see pages 2166-7.

HARPSICHORD 10. Introduction to the harpsichord. Explanation of mechanism, pedals, and registration. Study of special exercises and simple compositions. J. S. Bach, Selections from Anna Magdalena Bach Book;

Byrd, Pavane; Purcell, Suite No. 1.

Prerequisite: Piano 10.

MUSIC

HARPSICHORD 11. Demonstration of tuning, re-stringing, and other minor adjustments. Study of ornamentation (reference: "True Art of Keyboard Playing", by C.P.E. Bach.)

Keyboard music from 1600 to 1800 including the English, French, German and Italian schools. Bach, Two-part Inventions; Couperin, Les Moissonneurs, and Soeur Monique; Gibbons, Preludium; Scarlatti, Pastorale.

VOICE

Note: For Ear Test and Sight-Reading requirements see pages 2166-7.

A complete set of graded exercises, scales, arpeggios, and of sight-reading examples for Voice 7, 8, 9, 10 and 11 is published by the Conservatorium and can be obtained from the Secretary at a cost of 25¢.

VOICE 7

Studies: Vittorio Ricci, Beginner's Appendix — Twenty-Four Little Solfeggios (any three from Nos. 1-12).

Songs: Candidates will have to perform any two songs from the following list, as well as a song of their own choice:

Anon The Holly and the Ivy —
English Folk Song.
My Love's an Arbutus —
Irish Folk Song.
The Little Red Lark —
Irish Folk Song.
Kitty of Coleraine —
Irish Folk Song.

Brahms Lullaby.
Sunday.
Sandman.

E. J. Moeran (arr.) . The Jolly Carter.
Morley It was a Lover and his Lass.
Mozart Lullaby.
Schubert Who is Sylvia.
Lullaby.

Martin Shaw The Cuckoo.
William Shield . . . The Ploughboy.
H. Willan (arr.) . . Early One Morning.

VOICE 8 N.B. Refer to note under VOICE, above.

Studies: Vittorio Ricci, Beginner's Appendix — Twenty-Four Little Solfeggios (any three from No. 13 — end).

Songs: Candidates will have to perform any two songs from the following list, as well as a song of their own choice:

Anon Have You Seen but a Whyte
Lillie Grow.

JUNIOR PRACTICAL COURSES—VOICE

Arne	Where the Bee Sucks.
Brahms	My Maiden has Rosy Lips. Sapphic Ode. Vain Suit (Vergebliches Staendchen).
Dunhill	Little Lambs Where do You Sleep. The Milkmaid.
Franz	Dedication. For Music.
Giordani	My Beloved (Caro mio ben).
Grieg	I Love Thee. The First Primrose.
Handel	Alma mia. Angels Ever Bright and Fair. Slumber, Dear Maid (Largo). Where E'er You Walk.
Michael Head . . .	When Sweet Ann Sings.
Horn	I've been Roaming.
Ireland	The Holy Boy.
Lehmann	Oh! Bother, Sang the Thrush. The Cuckoo. The First Rose.
Liddle	An Old French Carol.
Mendelssohn	On Wings of Song.
Graham Peel	In Summer-Time on Bredon.
Purcell	Nymphs and Shepherds.
Schubert	Hedge Roses. Lindentree. To Music.
Somervell	A Shepherd's Cradle Song.
Eric Thiman	I Love all Graceful Things.
Verracini	Pastorale (arr. A.L.).
Vaughan-Williams . .	Linden Lee.

VOICE 9 N.B. Refer to note under VOICE, p. 2184.

Studies:

Concone: 50 Lessons; Panseron: 42 Vocalises; Panofka: Op. 85, Book I — Schirmer Library No. 595 — and Book II — Schirmer Library No. 596; Abt: Practical Singing Method, Op. 474 (Complete). Candidates will have to perform any three studies of a contrasting technical nature.

MUSIC

Prepared Pieces:

Candidates will have to perform two songs and one opera or oratorio excerpt selected from the early Italian or French repertory. The selection may be made from among the following:

Songs:

Brahms, Elgar, Robert Franz, Grieg, Haydn, Ireland, MacDowell, Roger Quilter, Rachmaninoff, Schubert, Schumann, Cyril Scott, Peter Warlock.

Excerpts from Opera or Oratorio:

Caccini, Caldara, Carissimi, Grétry, Lully, Mazzochi, Méhul, Monsigny, Monteverdi, Provenzale. 24 Italian Songs and Arias, Schirmer Library, Vol. 1723; also Anthology of Italian song, Book I or II, Schirmer.

VOICE 10 N.B. Refer to note under VOICE, p. 2184.

Studies:

Continuation of work listed under Voice 9.

Prepared Pieces:

Candidates will have to perform two songs and one excerpt from Opera or Oratorio. Choice from among the following:

Songs:

Same as under Voice 9.

Opera and Oratorio:

Grétry, Gluck, Handel, Offenbach, Mozart, Paisiello, Piccini, Ambroise Thomas, and Weber. Also Gevaert's Collection, Nos. 34-48, 75, 139, 159, 160, 166, 170, 314, 323, 330, 331, 371, 384, and 389.

VOICE 11 N.B. Refer to note under VOICE, p. 2184.

Studies:

Continuation and extension of work listed under Voice 10 (9).

Prepared Pieces:

Candidates will have to perform two songs and two operatic or oratorio excerpts, as well as a selection of their own choice:

Songs:

German lied, French art song, English songs, and modern.

Opera and Oratorio:

For suitable selections consult the following: Bach, Arias; Handel, Arias; Handel, Twelve Songs from the Oratorios — Novello ed; Mendelssohn, Elijah (solo music) — Boosey ed.; Royal Operatic Album — Boosey ed. (published separately for each voice).

DEPARTMENT OF ORCHESTRAL INSTRUMENTS

For Ear Test and Sight-Reading requirements for all orchestral instruments and grades, see pages 2166-7.

VIOLIN

VIOLIN 5

Scales: G and A major and minor through two octaves. D major and minor, F major through one octave, one note to each bow. (Minor scales in melodic form only.)

Studies ⁽¹⁾: S-VM (No. 13); or W-E (No. 2 — with different bowings).

Prepared

Pieces: One selection from the following list of pieces: Joseph Bloch, Valsette Op. 33 No. 2; Adam Carse, Marche Militaire; Gordon Jacob, A Bed-Time Song; Herbert Kingsley, Mazurka; Papini, Theme with Variations Op. 57; Rieding, Prière Op. 22 No. 4.

VIOLIN 6

Scales: G, A, and B major and minor through two octaves, four notes to each bow. (Minor scales in melodic form only.)

Arpeggios: G major and minor in first position only through two octaves: (a) one note to the bow; (b) three notes to the bow.

Studies: K-E (No. 1 — played with four different bowings); K-E (No. 7).

Prepared

Pieces: One selection from the following list of pieces: Duncan-Rubbra, Four Easy Pieces (any two); Rieding, Concertino in B Minor, Op. 35 (in first position); Seitz, Concertino Op. 22 No. 5; Hans Sitt, Concertino in First Position Op. 93 (First or last movement).

⁽¹⁾ The complete list of recommended studies referred to in the violin and viola courses of the Junior Department is enumerated below. These works will be referred to in the text by means of the indicated letter symbols.

F-E — Fiorillo, Etudes.

K-E — Kayser, Etudes, Op. 20.

Kr-E — Kreutzer, Etudes.

M-TSS — Mazas, Thirty Special Studies, Op. 36.

R-C — Rode, Caprices.

S-VM — Sevcik, Violin Method Op. 6 — Part II.

S-E — Sitt, Etudes, Op. 32 — Bk. III.

W-E — Wohlfarth, Exercises, Op. 74.

W-FS — Wohlfarth, Foundation Studies — Bks. I and II.

MUSIC

VIOLIN 7

Scales: Two octaves of C and B flat major and minor in second position, D major and minor in third and fourth position. Minor scales are to be played in both forms. (a) One note to each bow; (b) three notes slurred to each bow.

Arpeggios: Two octaves in the keys of G and D major and minor: (a) one note to each bow; (b) three notes slurred to each bow.

Studies: K-E (Nos. 9 and 12); S-E (No. 42).

Prepared Pieces:

One selection from the following list of pieces:
Dancla, Fragment of a Sonata; R. Hofman, Sonatina No. 3 (first or last movement); Lully-Spalding, Melody; Portnoff, Concerto Op. 15; Seitz, Concerto No. 2.

VIOLIN 8

Scales: Two octaves of E and E flat major and minor (harmonic and melodic) in fourth and fifth position, F major and minor (harmonic and melodic) in fifth and sixth position: (a) one note to each bow; (b) three notes slurred to each bow.

Arpeggios: Two octaves in the keys of E flat, E, and F major and minor.

Studies: K-E (Nos. 13 and 16); M-TSS (No. 4).

Prepared Pieces:

Pugnani-Moffat, Allegro entusiastico; Vivaldi: Concerto in A Minor, (first movement, or second and third movement).

VIOLIN 9

Scales: G, A, B flat, and B major and their tonic minors (harmonic and melodic) through three octaves. All scales to be played detached and three notes to a bow.

Arpeggios: G, A, B flat, and B major and minor, through three octaves: (a) one note to each bow; (b) three notes slurred to each bow.

Studies: K-E (Nos. 21 and 29); M-TSS (No. 7).

Prepared Pieces:

One selection from the following list of pieces:
Accolay, Concerto in A Minor; Seitz, Concerto No. 3 Op. 12 (first movement) and Concerto No. 4 (first movement) Sitt, Concertino Op. 31, (first or last movement)

VIOLIN 10

Scales: All major and minor (harmonic and melodic) scales through three octaves. Slurred and detached bowing.

Arpeggios: In all major and minor keys through three octaves, one note to a bow and slurred (one bow ascending and one descending.)

JUNIOR PRACTICAL COURSES—VIOLA

Studies: F-E (No. 15); Kr-E (No. 10); M-TSS (No. 18).

Prepared

Pieces:

Candidates must play the first piece and any one of the other four in the following list of pieces:

Handel, Six Sonatas (any one); Nardini, Concerto in E Minor; Tartini, Sonata in G Minor; Viotti, Concerto No. 23 (first or last movement).

VIOLIN 11

Scales:

All major and minor (harmonic and melodic) through three octaves. Also the chromatic scales of C beginning on the G string, and E beginning on the D string, through two octaves. Slurred and detached bowing.

Arpeggios:

In all major and minor keys, as well as dominant and diminished seventh chords through three octaves, one note to a bow, and slurred (one bow ascending and one descending).

Studies:

One selection from each of the following:
F-E; Kr-E; R-C.

Prepared

Pieces:

Candidates must play one selection from each of the following groups of pieces:

I. Corelli-Leonard, La Folia; Kreutzer, Concerto No. 19; Rode, Concerto in A Minor, Op. 8; Veracini, Sonata in E Minor.

II. Bach, Concerto in E Major; Bach, Sixth Partita in E Major, for violin alone (first movement only).

VIOLA

VIOLA 7

Prerequisite: Violin 6.

Scales:

C, D, and E major and minor melodic in two octaves, four notes to each bow.

Arpeggios:

C major and minor in first position only, through two octaves: (a) one note to each bow; (b) three notes to each bow.

Studies:

K-E (any one); W-FSI (any one).

Prepared

Pieces:

Reiding, Concertino in B Minor Op. 35 (viola transcription); or an easy selection from Old Masters For Young Players by Moffat-Palascho.

VIOLA 8

Scales:

F and E flat major and minor (harmonic and melodic) in second position, G major and minor (harmonic and melodic) in third and fourth positions, through two octaves: (a) one note to each bow; (b) two notes slurred to each bow.

MUSIC

- Arpeggios:* C and G major and minor, through two octaves: (a) one note to each bow; (b) three notes slurred to each bow.
- Studies:* K-E (any one); W-FS2 (any one).
- Prepared Pieces:* R. V. Williams, Viola Suite; (Carol, Ballade and Musette) or selections from Old Master For Young Players by Moffat-Palascho.

VIOLA 9

- Scales:* C, D, E flat, and E major and their tonic minors (harmonic and melodic) through three octaves. To be played detached and three notes to a bow.
- Arpeggios:* C, D, E flat, and E major and their tonic minors through three octaves. To be played detached and three notes to a bow.
- Studies:* K-E (Nos. 21 and 29); M-TSS (No. 7).
- Prepared Pieces:* Grazioli, Sonata in F; or M. Marais, Five Old French Dances; or three selections from Album of Classical Pieces, adapted for the viola by Klengel.

VIOLA 10

- Scales:* All major and minor (harmonic and melodic) scales through three octaves. Slurred and detached bowing.
- Arpeggios:* All major and minor keys through three octaves, detached and slurred (one bow ascending and one descending).
- Studies:* F-E (No. 15); K-E (No. 10); M-TSS (No. 18).
- Prepared Pieces:* Handel, Sonatas (any one of the six); Mozart, Divertimento in C; or Sitt, Concerto Op. 68.

VIOLA 11

- Scales:* All major and minor (harmonic and melodic) scales through three octaves. Also the chromatic scale of F beginning on C string, and of A beginning on G string, through two octaves. Slurred and detached.
- Arpeggios:* All major and minor keys, as well as dominant and diminished seventh chords, through three octaves, detached and slurred (one bow ascending and one descending.)
- Studies:* Three studies, one from each of the following: F-E; Kr-E; R-C.
- Prepared Pieces:* Ariosti, Sonata No. 2; or Handel, Concerto. Bruch, Romance; or P. Juon, Sonata; or Hindemith, Trauermusik.

JUNIOR PRACTICAL COURSES—CELLO

CELLO

CELLO 7

- Scales and Arpeggios:* C, G, D, and F major; A and D minor, through two octaves.
- Studies:* L. Feuillard, *Studies For The Young Cellist* (Nos. 11 and 17); Lee, *Forty Studies Op. 31, No. 4*; or Whitehouse, *Progressive Studies For The Violoncello* (Nos. 11, 12, 16 and 18).
- Prepared Pieces:* Howard Ferguson, *Five Irish Folk Tunes* (A Jig, and Cradle Song).

CELLO 8

- Scales:*
- Arpeggios:* E, A, D, A flat, E flat, and B flat major, and C sharp, F sharp, B, F, C, and G major, through two octaves.
- Studies:* Dotzauer, *113 Studies* (Nos. 10 and 33); L. Feuillard, *Studies For The Young Cellist* (Nos. 35 and 51).
- Prepared Pieces:* W. H. Squire, *Gavotte Op. 5*. — Augener ed. No. 7704b. Also one additional piece, to be selected by the teacher.

CELLO 9

- Scales and Arpeggios:* All major and minor, through two octaves: (a) detached; (b) slurred, two notes to a bow, and four notes to a bow.
- Arpeggios:* All major keys, through two octaves.
- Studies:* Dotzauer, *113 Studies* (any two advanced studies); Merk, *Studies* (Nos. 1 and 2). Duport, *Exercises* (No. 9); or Whitehouse, *Progressive Studies For The Violoncello* (Nos. 19, 20, 22, 24, 25, and 27).
- Prepared Pieces:* Goltermann, *Concerto in G* (first movement). Sammartini, *Sonata in G*. Also one additional piece, to be selected by the teacher.

CELLO 10

- Scales:* All major and minor melodic through three octaves: (a) detached; (b) slurred, two, four, or eight notes to a bow.
- Arpeggios:* All major and minor keys, through three octaves.
- Studies:* Duport: Any two studies.
- Prepared Pieces:* J. Barbirolli, *Six Airs*, arranged for 'cello (any two); or Goltermann, *Concerto in B Minor* (first movement); and Eccles, *Sonata in G Minor*.

MUSIC

CELLO 11

- Scales:* All major and minor melodic scales through three octaves. Chromatic scale of F beginning on the C string, and of C beginning on the G string, through two octaves. Slurred and detached bowing.
- Arpeggios:* All major and minor, through three octaves.
- Studies:* J. L. Duport, Study No. 7, or Caprice. Franchomme, Studies (any one); or Grutzmacher, Studies (any one).
- Prepared Pieces:* Bach, Suites (two movements from any one); Saint-Saens, Concerto in A Minor (first movement).

DOUBLE BASS

DOUBLE BASS 8

- Scales:* F, G, B flat, A, E, and F sharp major, and F, E, G, A, B harmonic minor, in quarter notes and eighth notes, detached and bowed.
- Arpeggios:* Same keys as for scales, through two octaves.
- Studies:* Bille, Nanny, Simandl, — up to the second position.

DOUBLE BASS 9

- Scales:* Same keys as Double Bass 8, in quarter notes, eighth notes, and triplets, eight notes to the bow, MM 70.
- Arpeggios:* Same as Double Bass 8.
- Studies:* Simandl, 30 Etudes. Also studies in Nanny and Findeisen. Findeisen's, Nanny's or Simandl's method up to the fourth position.
- Prepared Pieces:* Beethoven, Ninth Symphony (recitativo bass part); Saint-Saens, Carnival of the Animals (The Elephant).

DOUBLE BASS 10

- Scales:* All major and minor keys through two octaves, detached and tied by two, four, and six notes to the bow. Triplets, three and six notes to the bow, MM 70.
- Arpeggios:* In all major and minor keys.
- Studies:* Hrabe, Studies; — with different bowings using two, four, and six notes to the bow; Kreutzer, Studies.
- Prepared Pieces:* Beethoven, Fifth Symphony (bass part); Brahms, Second Symphony (bass part); Verrismt, Concerto in B flat — Leduc Ed.

DOUBLE BASS 11

- Scales:* All major and minor keys, through three octaves. Harmonics. Combination of rhythm and bowing.
- Arpeggios:* In all major and minor keys.
- Studies:* Kreutzer, Studies (two); Storch-Hrabe, Etudes.

JUNIOR PRACTICAL COURSES—FLUTE

Prepared Pieces:

Beethoven, Ninth Symphony (bass part); Brahms, First Symphony (bass part); Dittersdorf, Concerto in E Major.

FLUTE

FLUTE 8. Production of tone, low C to high E; Altès, Flute Method, Part I; Major scales to two sharps and flats. Simple pieces with and without accompaniment.

FLUTE 9. Knowledge of chromatic range from low C to high A. Major and minor scales to five sharps and five flats. Arpeggios in the simple keys. Altès, Flute Method, Part II. Gariboldi, Etudes mignonnes; Kohler, Duets; Moyse, Twenty Four Short Melodious Studies with Variations. Easy pieces.

FLUTE 10. Knowledge of entire range. Scales, triads, and seventh chords. Chromatic scales. Cavally, Melodious and Progressive Studies—Bk. I; Gariboldi, Complete Scales; Kohler, Fifteen Easy Exercises Op. 33 — Bk. I. Sonatas by Loeillet and other masters of the seventeenth and eighteenth century.

FLUTE 11. Broken triads and seventh chords, whole tone scales. Berbiguier, Etudes; Cavally, Melodious and Progressive Studies, Bk. II; Kohler, Twelve Exercises Op. 33 — Bk. II; Taffanel — Gaubert, Daily Finger Exercises and Progressive Studies. Sonatas by Handel, Loeillet, Mozart (Andante), Purcell, Telemann.

RECORDER

RECORDER 7. Duschenes, Method for the Recorder (BMI Canada); major scales to two sharps and flats; Duschenes, Studies in Recorder Playing; **easy duets and pieces with piano; sight-reading.**

RECORDER 8. Major and minor scales and arpeggios to three sharps and three flats; Duschenes, Studies in Recorder Playing; Duets by English and French masters of the seventeenth and eighteenth century; "Spielstuecke" of the seventeenth century; easy sonatas by Pepusch, Schickhardt; Fuenf leichte Suiten aus dem Barock (Schott); Johann Fischer, Suites; Trio Sonatas by Sammartini, Bononcini (Schott); sight-reading; ability to play both soprano and alto recorders.

RECORDER 9. Scales and arpeggios to five sharps and flats; Fifteen Solos by Anonymous Masters of the Eighteenth Century (Schott); Duschenes, Studies in Recorder Playing; Telemann, Duets; Sonatas by Haendel, Loeillet, Purcell, Vivaldi; Trio Sonatas by Loeillet, Schickhardt; Variations "Greensleeves to a Ground" (Schott); Hoeffer-Winterfeld Technische Studien fuer Altfloete; study of the history of the flute family; ability to play soprano, alto, tenor, bass recorders; sight-reading.

RECORDER 10. Duschenes, Studies in Recorder Playing, Moenkemeyer, Hohe Schule (Moeck); Hoeffer-Winterfeld, 40 Studies (Sikorski); Telemann, Sonatas; Trio Sonatas by Telemann, Haendel, Quantz, Bach, Brandenburg Concerto No. 4; Telemann, Suite in A minor, Concerto in G minor, obbligato parts to Bach arias; Graupner Concerto; Tate, Spielstuecke (Baerenreiter); Hoeffer-Winterfeld, 12 Etuden fuer Altfloete; ability to play in C clef third line, sight-reading.

MUSIC

RECORDER 11. Moenkemeyer, Hohe Schule, Hoeffler-Winterfeld, Bachstudien; Berkeley, Sonatina; Genzmer, Sonata; Telemann, Sonata in C, Vivaldi, 6 concertos; Bach, Brandenburg Concerto No. 2; ability to conduct a recorder ensemble; sight-reading.

OBOE (ENGLISH HORN)

OBOE 8. Posture. Position of the reed. Action of the tongue. Scales. Barret, Forty-Two Progressive Studies for the Oboe; F. Gillet, Beginning of the Oboe.

OBOE 9. Scales, thirds and arpeggios. Barret, Four Sonatas and Sixteen Studies; F. Gillet, Twenty Minutes Practice.

OBOE 10. Scales. F. Gillet, Intervals and Staccato; Sellner, Exercises in Articulation; Sellner, Six First Duos for Two Oboes (Sonata Form).

OBOE 11. Brod, Twenty Studies; Sellner, Six Last Duos for Two Oboes. Handel, Sonata in C Minor.

CLARINET

CLARINET 7. Position of lips and fingers. Tone production. Scales up to one flat and one sharp. Diminished seventh arpeggios. Finger exercises derived from the diminished seventh arpeggio.

CLARINET 8. Chromatic scales. Major and minor scales. Major and minor thirds. Legato and staccato

CLARINET 9. Intervals of third, fourth, and fifth in major and harmonic minor keys. Chromatic exercises. Legato and staccato. C. Rose, Thirty-Two Studies for the Clarinet.

CLARINET 10. Chromatic exercises. Chromatic thirds and fourths. Whole tone scales. Transposition in A. Labanchi Method.

CLARINET 11. Transposition in both A and B; use of C clefs. Labanchi Method continued. Le Roy, Fifteen Concert Etudes from J. S. Bach; Louis de Santis, New Studies for the Clarinet. G. Marty, Fantasy for Clarinet and Orchestra; Weber, Concertino.

SAXOPHONE

SAXOPHONE 10. Major and minor scales and arpeggios. Chromatic scales. Klose, Etudes; Ben Verecken, Studies — Bk. I.
Prerequisite: Clarinet 9.

SAXOPHONE 11. Labanchi — Iasilli, Bk. I; Mule — Soussman, Vol. I. Advanced studies on chromatics. Transposition. Solos of intermediate difficulty.

BASSOON

BASSOON 8. Placement of reed in mouth. Action of tongue and lips. Holding the instrument. Practice of attacks, long tones, fingerings, scales.

BASSOON 9. Extension of range. Scale studies. Exercises on articulations. Weissenborn, Studies — Bks. I and II.

BASSOON 10. Tenor clefs. Major and minor scales up to four sharps and four flats. Intonation. Reed making. Bourdeaux, Premier Solo de Concours.

JUNIOR PRACTICAL COURSES—TRUMPET

BASSOON 11. Completion of scale studies. Legato and staccato. Eugène Jancourt, Grande Etude pour Basson Op. 55; L. Milde, Twenty-Four Studies in All Keys Op. 24.

TRUMPET

TRUMPET 8

Scales and Arpeggios:

C, F, and G with their relative minors (harmonic), to be played slowly, both detached and slurred through one octave.

Studies:

Arban's Method (No. 25, p. 30, and No. 28, p. 32).

TRUMPET 9

Scales and Arpeggios:

D, A, E, B, B flat, E flat, A flat, and D flat major, with their relative minors, to be played both legato and detached.

Studies:

Arban's Method (Characteristic Study, No. 1, p. 285).

TRUMPET 10

Scales and Arpeggios:

All major scales and arpeggios and their relative harmonic minors, to be played legato and detached.

Studies:

Bousquet Studies — St. Jacome Method (No. 7 to be transposed to trumpet in A, a half tone down, and to trumpet in C, one tone up; also No. 17).

TRUMPET 11

Scales and Arpeggios:

All major and minor (melodic and harmonic) scales and arpeggios to be played single — and double — tongued.

Studies:

Charlier, Etudes for Trumpet (p. 5); Sachse, Etudes for Trumpet (No. 3 to be transposed to trumpet in A, C, D, E flat and F); St. Jacome, Method for Trumpet (No. 6 of Characteristic Studies).

FRENCH HORN

FRENCH HORN 11. Tone production, embouchure formation. Use of breath and tongue. Natural overtones, interval relations, arpeggio figures. Diatonic and chromatic passages, staccato and legato, in varying rhythms.

TROMBONE (TUBA)

TROMBONE 11. Correct stance: position of body and correct manner of holding instrument. Mouthpiece placement. Breath control. Attack and release of tone. All major and minor scales with tonic chords. Basic exercises in Arban and Sörgey Methods.

PERCUSSION

PERCUSSION 11. Snare drum: rudiments; rolls in various nuances. First part of Podemski Snare Drum Method. Mallets (pertaining to all phonic instruments which are struck): major and minor scales. First part of William Dorn Method. One solo piece. Timpani: Goodman Method (first section).

MUSIC

HARP

HARP 8. Hand position. Basic scales and arpeggios. Grossi, *Harp Method*.

Candidates must prepare three selections from the following list of pieces: Bach — Abrams, *Two Minuets in G — in A Treasury of Easy Classics*⁽¹⁾; Grandjany, *Bagatelles*; Grandjany, *Three Easy Pieces (Nocturne, Bagatelles)*; Hasselmans, *Berceuse en sol mineur*; Hasselmans, *Trois pieces faciles (Rêverie)*; Maykapak-Abrams, *The Blacksmith*; Mozart — Abrams, *Andantino*, K. 236; Prokofieff — Abrams, *Fairy Tale*; Salzedo, *Preludes Intimes (Nos. 1 and 3)*; Scarlatti — Abrams, *Larghetto in D Minor* — TEC.

HARP 9. Major scales through one and a half octaves. N. D. Bochsa, *Forty Progressive Studies — Bk. I (any four studies)*.

Candidates must prepare three selections from the following list of pieces: Bach — Abrams, *Polonaise* — TEC; Bach — Abrams, *Twelve Little Preludes (Pour le luth)* — TEC; Beethoven — Abrams, *Sonatina in G* — TEC; Grandjany, *Greetings*; Grandjany, *In a Dancing Mood* — *Harp Album*; Grandjany, *Le bon petit roi d'Yvetot*; Grandjany, *On an Old Christmas Song*; Handel — Abrams, *Prelude in G* — TEC; Renié, *Angelus*; Renié, *Première suite des six pièces (Auprès du ruisseau)*; Renié, *Danse d'autrefois*; Renié, *Esquisse*.

⁽¹⁾ Referred to henceforth as TEC.

HARP 10. Major and minor scales through three octaves. Major sixth and dominant ninth glissandi. Pozzoli, *Studi di media difficoltà per arpa (any two studies)*.

Candidates must prepare three selections from the following list of pieces: Beethoven, *Six Easy Variations on a Swiss Air*; Debussy — Grandjany, *La Fille aux cheveux de lin*; Donizetti — Schneker, *Lucia di Lamermoor (Cadenza)*; Grandjany, *Arabesque*; Grandjany, *Et ron, ron, ron, petit patapon*; Grandjany, *Noël provençal*; Grandjany, *The Pageant Begins*; Kirchhoff — Grandjany, *Aria and Rigaudon*; Renié, *Contemplation*; Saint-Saëns, *Fantaisie*; Tournier, *Au matin*; Zabel, *Marguerite douloureuse*.

HARP 11. Diminished seventh glissandi. Naderman, *Sept sonates progressives (any two sonatas)*.

Candidates must prepare three selections from the following list of pieces: Bach-Grandjany, *Largo*; Busser, *Pièce de Concert*; Couperin-Salzedo, *Giga*; Debussy-Renié, *First Arabesque*; Granados-Abrams, *The Last Pavane*; Grandjany, *Aria in the Classical Style for Harp and Strings (or Organ)*; Grandjany, *Automne*; Grandjany, *Old Chinese Song*; Handel-Grandjany, *Sarabande*; Hasselman, *La Source*; Hasselmans, *Patrouille*; Pierné, *Impromptu-Caprice*; Rousseau, *Variations pastorales sur un vieux Noël*; Salzedo, *Suite of Eight Dances (Seguidilla and Rumba)*; Schubert-Grandjany, *Andante*; Tournier, *Berceuse russe*; Tournier, *Féerie*; Tournier, *Images, Premier suite (Lolita, La Danseuse)*.

ENSEMBLE COURSES

COLLEGIUM MUSICUM 10. Concerted music of the Renaissance for viols, recorders and other early wind instruments. Also music for voice (or voices) in combination with these, or with keyboard instruments or lute. Examinations will include tests relating to the technique (scales,

exercises, and studies of the individual players. The course is open to partials who are proficient in performing upon a modern stringed, wind or keyboard instrument, or who have some knowledge of the rudiments of musical theory and harmony.

COLLEGIUM MUSICUM 11. A continuation of Collegium Musicum 10.

LOCAL CENTRES

The following places have been adopted as centres for public Examinations in Music; others will be added as necessity requires, but in all cases the establishment of a centre depends upon a sufficient number of candidates applying. All examinations for Certificates in the Local Grades, as well as those for the A. Mus. are held at these centres:

BURY	<i>Hon. Secretary:</i> Mrs. F. H. Harrison, Bishopton
CAMPBELL'S BAY	<i>Hon. Representative:</i> Rev. J. R. Windle. <i>Hon. Secretary:</i> Sister Frances Teresa, St. Joseph's Convent.
CHARLOTTETOWN	<i>Hon. Representative:</i> <i>Hon. Secretary:</i> Miss E. Lillian McKenzie, Mus.B., F.M.C.M. (McGill), Conway Apts., Orlebar St.
EDMONTON	<i>Hon. Representative:</i> Dean Robert Hardy, University of Alberta. <i>Hon. Secretary:</i> Mrs. O. J. Walker, L.Mus., (McGill), 11103 Saskatchewan Drive.
FERNIE	<i>Hon. Representative:</i> Sydney Crookes, Esq. <i>Hon. Secretary:</i> Mrs. A. White, Cranbrook.
FREDERICTON	<i>Hon. Representative:</i> The Very Reverend Spencer C. Gray, The Deanery. <i>Hon. Secretary:</i> R. W. Mott, Esq., L.Mus. (McGill), 374 Charlotte St.
GRANBY	<i>Hon. Secretary:</i> Mrs. K. Thierer, 3 Elgin St.
HALIFAX	<i>Hon. Representative:</i> The Rev. S. H. Prince, University of King's College. <i>Hon. Secretary:</i> Miss M. H. Boak, 78 Morris St.
MONCTON	<i>Hon. Representative:</i> The Rev. J. A. Ramsay, D.D., The Manse, Alma St. <i>Hon. Secretary:</i> Miss Marion Murray, 185 Mountain Road.
MOOSE JAW	<i>Hon. Representative:</i> S. R. Stephens, Esq., City Librarian, Public Library. <i>Hon. Secretary:</i> Academy of Sion.

MUSIC

PETERBORO	<i>Hon. Representative:</i> John T. Donaldson, Esq., 223 Crescent St. <i>Hon. Secretary:</i> F. G. Mann, Esq., F.M.C.M., 203 London St.
QUYON	<i>Hon. Secretary:</i> Mrs. Evelyn M. Little, Shawville
REGINA	<i>Hon. Representative:</i> Regina Conservatory of Music. <i>Hon. Secretary:</i> Mrs. R. H. Johnston, L.Mus. (McGill), Darke Hall.
RIVER JOHN	<i>Hon. Secretary:</i> Mrs. Harold Lisson.
SAINT JOHN	<i>Hon. Secretary:</i> Dr. H. C. Dunlop, L.Mus., 75 Orange St.
SHERBROOKE	<i>Hon. Secretary:</i> Wright W. Gibson, Esq., M.A., F.M.C.M., High School.
SMITHS FALLS	<i>Hon. Secretary:</i> A. W. Lucas, Esq., L.Mus., Box 85.
SYDNEY MINES	<i>Hon. Secretary:</i> H. A. Briers, Esq., F.M.C.M., Box 438.
TRURO	<i>Hon. Representative:</i> Douglas Baker, Esq., 10 Queen St. <i>Hon. Secretary:</i> Miss Bertha Dunn, L. Mus., F.M.C.M. (McGill), 11 Victoria St.
VICTORIA	<i>Hon. Secretary:</i> R. H. Cox, Esq., L.Mus. (McGill),
VANCOUVER ISLAND	1462 Fort St.

McGill University

FACULTY OF DIVINITY

ADMINISTRATIVE OFFICERS

THE UNIVERSITY—

F. CYRIL JAMES, Chevalier de la Légion d'Honneur, B.Com., M.A., Ph.D.,
D.Sc., D. de l'U., D.C.L., LL.D., F.R.S.C. *Principal*

D. L. THOMSON, Ph.D., LL.D., F.C.I.C., F.R.S.C. *Vice-Principal*

JOHN H. HOLTON, B.Com. *Secretary of the Board of Governors*

COLIN M. McDougall, D.S.O., B.A. *Registrar*

RICHARD PENNINGTON, B.A., Lib.Dip. *University Librarian*

G. A. GRIMSON, B.Com. *Comptroller*

FACULTY OF DIVINITY—

S. B. FROST, B.D., M.Th., Dr. Phil. *Dean of the Faculty*

W. C. SMITH, M.A., Ph.D. *Secretary of the Faculty*

A complete list of the teaching staff of the University, including the Faculty of Divinity, is printed as a separate Announcement, which may be obtained from the Registrar's Office.

The Faculty of Divinity, its theological library and reading room, chapel, classrooms, auditorium, common rooms, and office are in Divinity Hall, 3520 University Street.

Daily Services open to all members of the University are held in the Chapel during the session at times intimated on the notice-boards.

DIVINITY

CALENDAR FOR THE SESSION 1960-61

1960

September 12th, Monday.....Supplemental Examinations begin.
 September 19th, Monday.....Registration (Postgraduate Students).
 September 20th, Tuesday.....}Registration (Undergraduate Students).
 September 21st, Wednesday.....}
 September 22nd, Thursday.....Lectures begin.
 October 6th, Thursday.....Fall Convocation
 November 11th, Friday.....Remembrance Day Service.
 December 16th, Friday.....Last day of Lectures.

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January 5th, Thursday.....Second term begins.
 February 17th, Friday.....}Mid-term holidays.
 February 18th, Saturday.....}
 March 30th, Thursday.....Lectures end.
 March 31st, Friday.....}Easter Vacation.
 April 3rd, Monday.....}
 April 20th, Wednesday.....Examinations begin.
 May 31st, Wednesday.....Convocation.

TEACHING STAFF OF THE FACULTY OF DIVINITY

STANLEY BRICE FROST, B.D., M.Th. (Lond.), Dr. Phil. (Marburg)
Dean of the Faculty and Professor of Old Testament Language and Literature
 GEORGE JOHNSTON, M.A., B.D. (Glasgow), Ph.D. (Cantab.)
Professor of New Testament Language and Literature
 ERIC GEORGE JAY, M.A. (Leeds), B.D., M.Th., Ph.D. (Lond.)
Professor of Systematic Theology
 WILFRED CANTWELL SMITH, B.A. (Tor.), M.A., Ph.D. (Princeton)
W. M. Birks Professor of Comparative Religion
 HENRY HORACE WALSH, B.D. (General Synod), M.A. (King's), S.T.M.
 (General Theological Seminary), Ph.D. (Columbia)
Professor of Church History
 JOSEPH MCLELLAND, B.A. (McMaster), M.A., B.D. (Toronto), Ph.D. (Edin.)
Associate Professor of Philosophy of Religion
 DONALD DWIGHT EVANS, B.A. (Toronto), B.Ph. (Oxon.), B.D.
Assistant Professor of Philosophy of Religion
 JOHN ARTHUR BOORMAN, B.A. (Alberta), M.A., Ph.D. (Columbia).
Lecturer in Christian Ethics
 JOHN CHARLES KIRBY, S.T.B. (General Theological Seminary, New York),
 B.A., S.T.M.
Lecturer in New Testament
 CHARLES JOSEPH ADAMS, A.B. (Baylor), Ph.D. (Chicago)
Lecturer in Comparative Religion
 ISMA'IL FARUQI, B.A. (Beirut), M.A., Ph.D. (Indiana)
Visiting Fellow

The Faculty of Divinity

GENERAL

The Faculty was created by the Senate of the University in 1948, following negotiations with the Montreal Diocesan College, the United Theological College (Montreal) and the Joint Board of Theological Colleges affiliated to McGill University. Admission is open to any qualified student, but the Faculty operates in immediate association with the aforementioned colleges, which accept the courses of instruction in respect of their candidates for ordination. At the same time, the Colleges preserve their separate identity and provide corporate life, residential accommodation, and courses of practical training. The Colleges also offer bursaries and financial assistance to their students.

The Faculty of Divinity offers a three-year course leading to the degree of Bachelor of Divinity (B.D.) general or with honours. The basic entrance requirement is a Bachelor's degree from a recognized university, and there are also prerequisites in certain subjects, as noted in the following pages. In co-operation with the Faculty of Graduate Studies and Research, the degrees of Master of Theology (S.T.M.) and Doctor of Philosophy (Ph.D.) are offered. Particulars will be found on page 2316.

The B.D. course provides an education in the Biblical, Historical, Theological and Philosophical aspects of the Christian Religion. Additional training in Practical and Pastoral Theology and in subjects for which a distinctive form of training is required by a particular Communion, is provided by the participating theological colleges. The Montreal Diocesan Theological College of the Anglican Church of Canada and the United Theological College of the United Church of Canada also grant their own diplomas on completion of the course for ordination. Students who belong to other Communions should consult their own ecclesiastical authorities before applying to one or other of these colleges for training in the subjects which are required of ordination candidates, but which do not form part of the B.D. course in the Faculty of Divinity.

The Faculty also provides instruction, as indicated above, for ordination candidates who are enrolled in the participating colleges, but who, through lack of qualification in pre-requisite studies, are not eligible to become candidates for the B.D. degree. They are admitted as Partial Students (see page 2307).

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REQUIREMENTS FOR ADMISSION

A Bachelor's degree from a recognized university, preferably the B.A., is the basic prerequisite.

It is also normally required that the following courses shall have been completed in the Faculty of Arts and Science of McGill University, or their equivalent in another recognized university:

Courses are designated as in the Announcement of the Faculty of Arts and Science.

<i>Latin:</i>	Senior Matriculation Latin, or Latin 2 or 11.
<i>Greek:</i>	Junior Matriculation Greek, or Greek 2.
<i>Philosophy:</i>	Philosophy 300 and one additional course.
<i>History:</i>	One course in Ancient History, and one course in European History.
<i>English:</i>	English 100, and one additional course.
<i>Natural Sciences:</i>	One course.
<i>Social Sciences:</i>	A course in one of the following: Economics Political Science Psychology Sociology Social Anthropology

Applicants who have not completed all the above subject requirements, or who are in doubt as to the equivalent recognition of courses taken elsewhere than at McGill, should consult the Dean. It may be necessary for them to take certain qualifying courses for admission to the B.D. course. The Dean may exercise his discretion in the case of students whose course for the Bachelor's degree has not followed the normal pattern outlined above.

Students who intend to enter the Faculty of Divinity after completing an Arts course are strongly advised to include the above subjects. They should also consult with the Dean of the Faculty of Divinity, who will advise them concerning the most suitable course of studies.

ADVANCED STANDING

Admission to advanced standing in the B.D. course may be granted to suitable applicants from recognized institutions, but in no case will the B.D. degree be granted after less than two years' intramural study in the Faculty of Divinity.

APPLICATION AND REGISTRATION

Intending students of the Faculty of Divinity must submit to the Dean an application with supporting documents by August 1st, 1960. Requests for the necessary application forms should be sent to the Dean's Secretary, Divinity Hall, 3520 University St., Montreal 2.

Registration will take place at the Office of the Dean on Tuesday, September 20th, and Wednesday, September 21st, 1960. Students registering late will be required to pay a special fee for late registration unless exempted by the Registrar for sufficient reasons.

CLASSES OF STUDENT

- (i) **Regular** Students who are admitted to the B.D. course and who are taking the full number of lecture courses of the year in which they are enrolled.
- (ii) **Limited** Students who are admitted to the B.D. course, but who are unable to undertake the full work of the B.D. curriculum concurrently with the courses in Practical Theology provided by the colleges for candidates for ordination, or who, not being ordination candidates, have good reason to ask for extension. Such students may, with the Dean's permission, extend their course for the B.D. degree beyond the normal period of three years.
- (iii) **Partial** Students who are not registered as proceeding to the B.D. degree, but who can satisfy the Dean and Faculty of their ability to do the work of the courses to which they seek admission. Ordination candidates registered in one of the participating colleges, and who are not eligible for entrance to the B.D. course, will be advised by the Principal of the College as to the courses of the B.D. curriculum to which they should seek admission as Partial students.
- (iv) **Graduate** Students enrolled in the Faculty of Graduate Studies and Research who are candidates for the degrees of S.T.M. and Ph.D.

FEES

(1) Regular, Limited, and Partial students in the Faculty of Divinity who are candidates for ordination registered in one of the participating theological colleges, will be exempted from payment of tuition fees, in view of the contribution of the colleges to the support of the Faculty. Such Regular and Limited students will, however, be required to pay the annual Health Service fee, \$7.00 (if in residence, \$10.00), Athletics fee, \$15.00, and the Students' Society fee, \$15.00.

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(2) The University fee for all other full-time students will be \$500.00 a session, and includes all the regular charges of the University for tuition, registration, health service, libraries, sports, games, graduation and Students' Society fee.

(3) Limited students, and Partial students, not candidates for ordination, who are taking one or two courses, will pay \$115.00 for each full course, \$5.00 Grounds fee, and \$5.00 to the Students' Society (\$3.50 for the use of the McGill Union, and \$1.50 for the McGill Daily). If taking three or more courses, such students will pay the Health Service fee of \$7.00 (if in residence, \$10.00), the Athletics fee of \$15.00, and the full Students' Society fee of \$15.00.

(4) Partial students who are candidates for ordination registered in one of the participating theological colleges, will be exempted from payment of tuition fees, but will pay the extra fees listed in (3) above.

(5) Fees for Graduate students are shown in the Announcement of the Faculty of Graduate Studies and Research. Particulars may be had on application.

For further information about the payment of fees, consult the General Information Pamphlet included with this Announcement.

EXAMINATIONS

Sessional examinations are held late in April.

The pass mark in all examinations is 50%. First class standing is 80% and over, second class standing 65% to 79%, and third class standing 50% to 64%.

FAILURES AND SUPPLEMENTAL EXAMINATIONS

A student who has failed in an examination may apply for permission to write a supplemental examination in the following September. A student who has failed in more than two full courses must withdraw from the Faculty or, with the Dean's permission, repeat his year.

CONDITIONED STANDING

A student who lacks not more than one full course of the entrance requirements to any year of the B.D. course, may be admitted by the Faculty with conditioned standing. He is not permitted to carry this condition for more than one session.

CURRICULUM FOR THE GENERAL B.D. DEGREE (1960-1961)

Note: In the First year, students who possess the necessary qualification in Greek take Hebrew as their Biblical language. Others choose between *Hebrew* and *Greek*. The Second and Third years take the following classes together in alternate years: *Old Testament*, *New Testament*, *Systematic Theology*. In the Third year, second term, students must choose their optional subject as *Church History*, *Comparative Religion*, *Christian Ethics* or *Pastoral Psychology*. For details of courses see pages 2312 *et seq.*

FIRST YEAR

Old Testament.....	2 hours and tutorials, session
New Testament.....	2 hours and tutorials, session
Systematic Theology.....	2 hours and tutorials, session
Philosophy of Religion.....	2 hours and tutorials, first term
Church History.....	2 hours and tutorials, second term
Biblical language.....	3 hours, session

Total lecture and tutorial hours: 12 hours per week, session.

SECOND YEAR

Old Testament.....	2 hours and tutorials, second term
New Testament.....	2 hours and tutorials, first term
Systematic Theology.....	2 hours and tutorials, session
Philosophy of Religion.....	2 hours and tutorials, second term
Church History.....	2 hours and tutorials, session
Comparative Religion.....	2 hours and tutorials, first term
Pastoral Psychology.....	2 hours and tutorials, first term
Christian Ethics.....	2 hours and tutorials, second term
Biblical Language.....	1 hour, session

Total lecture and tutorial hours: 12 hours per week, session.

THIRD YEAR

Old Testament.....	2 hours and tutorials, second term
New Testament.....	2 hours and tutorials, first term
Systematic Theology.....	2 hours and tutorials, session
Philosophy of Religion.....	2 hours and tutorials, first term
Church History.....	1 hour, first term
Optional subject.....	2 hours and tutorials, second term
Biblical Language.....	1 hour, session

Total lecture and tutorial hours: 9 hours per week, first term.

8 hours per week, second term.

The presentation of an acceptable thesis embodying the results of specialized study is a requirement for the B.D. degree. (See Regulations, page 2315.)

DEGREE OF B.D. WITH HONOURS

- (1) Students in the regular B.D. course may apply for admission to the Honours B.D. programme normally at the beginning of the Second year, but not later than the beginning of the Third year. Permission to enter the Honours Programme is granted by Faculty.
- (2) The Honours programme is designed to give students of greater capacity the opportunity to specialize in one of the areas of the regular B.D. programme. The normal evidence indicating that a student has such a greater capacity will be the attainment of an 'A' mark in the area of proposed specialization and a good 'B' mark average at least (70%) in the rest of the B.D. course.
- (3) There will be no alteration of the regular B.D. syllabus unless for some unusual circumstance relating to a particular student. If any courses are considered less valuable for such a student, other courses of equivalent weight will be substituted in the regular B.D. syllabus.
- (4) Candidates for Honours in the biblical subjects will be expected to have a reading knowledge of Hebrew and Greek. This qualification is recommended for all Honours candidates, but may be waived at the discretion of Faculty.
- (5) The Honours specialization will be provided for by reading-lists and tutorials. Students accepted for Honours should consult with the professor of the subject in which they have chosen to specialize.
- (6) The specialized study will be the subject of an additional three-hour paper in the final examinations of the Third year.
- (7) The thesis of an Honours student will be expected to be of a higher standard than those of the regular B.D. programme. (*See also Regulations for the submission of the B.D. thesis, p. 2315.*)
- (8) The class of the Honours degree awarded to the successful candidate will be recommended by Faculty to Senate on the results of the general B.D. examination, the mark attained in the special paper and the mark assigned to the thesis.

COURSES OF INSTRUCTION

DESCRIPTION OF COURSES

OLD TESTAMENT

Professor

S. B. FROST

Teaching Fellow

OLD TESTAMENT 1A—AN INTRODUCTION TO OLD TESTAMENT STUDIES

Presuppositions. The Geography of Near East and of Palestine. The History of Near East to 4 B.C. The Identity of the Hebrews. The History of the Hebrews. The Literature known as the Old Testament. Its text and transmission.

OLD TESTAMENT 1B—OLD TESTAMENT PROPHECY

The origins and character of prophecy. The Schools of the Prophets. The Eighth Century Prophets. The Prophets of the Exile. The Post-Exilic Prophets. The Structure of the Book of Isaiah, with exegesis of selected chapters.

OLD TESTAMENT 2B—HEBREW POETIC AND WISDOM LITERATURE

The nature, structure and origins of the Psalter. The nature of Hebrew Poetry. Types of psalms: Hymns, Royal, Enthronement, Laments, Didactic. Exegesis of selected psalms. The Wisdom Literature (*Given in 1960-61.*)

OLD TESTAMENT 3B—THE PENTATEUCH

The nature and content of the Pentateuch. The history of Pentateuchal Criticism. The analysis and character of the Pentateuchal Sources. Exegesis of selected chapters. The main theological terms of the Old Testament. (*Not given in 1960-61.*)

HEBREW I

The rudiments of Biblical Hebrew.

HEBREW 2 AND 3

Advanced grammar. Translation of selected Hebrew texts.

NEW TESTAMENT

Professor

G. JOHNSTON

Lecturer

J. C. KIRBY

NEW TESTAMENT 1—INTRODUCTION TO NEW TESTAMENT STUDIES

The political and religious background; the canon, text, and versions of the New Testament; the Synoptic Problem; text of the Synoptic Gospels and the Acts of the Apostles.

NEW TESTAMENT 2A—THE LIFE AND TEACHING OF ST. PAUL

Introduction to the Pauline Epistles, with exegesis of selected portions in Greek; introduction to the Pastoral Epistles. (*Given in 1960-61.*)

DIVINITY

NEW TESTAMENT 3—THE EPISTLE TO THE HEBREWS; THE GENERAL EPISTLES, AND THE JOHANNINE LITERATURE

Introduction, with exegesis of selected portions in Greek. (*Not given in 1960-61.*)

GREEK 1

The rudiments of New Testament Greek.

GREEK 2 AND 3

Advanced grammar. Translation of selected Greek texts.

CHURCH HISTORY

Professor

H. H. WALSH

CHURCH HISTORY 1B—THE FIRST FIVE CENTURIES

The world in which the Church was founded, and the Christian development.

CHURCH HISTORY 2A—THE CHURCH IN THE MIDDLE AGES

From the Teutonic invasions to the Reforming Councils.

CHURCH HISTORY 2B—THE REFORMATION AND THE COUNTER-REFORMATION

A brief survey of the Eastern Churches and of missionary activity during this era will be included.

CHURCH HISTORY 3A—CANADIAN CHURCH HISTORY

A study of the origin and development of the various branches of the Christian Church in the Canadian setting.

CHURCH HISTORY 3B (OPTIONAL)—HISTORY OF THE MODERN CHURCH

European Christianity from the 18th Century; the world-wide expansion of Christianity with special reference to the Ecumenical Movement.

SYSTEMATIC THEOLOGY

Professor

E. G. JAY

SYSTEMATIC THEOLOGY 1A—HISTORICAL INTRODUCTION

The development of Christian Thought: a study of selected theologians from Irenaeus to Paul Tillich; with reference to original sources.

SYSTEMATIC THEOLOGY 1B—SIGNIFICANCE OF THE CHRISTIAN DOCTRINE OF CREATION FOR TO-DAY

The Christian concept of the Triune God—The Christian Estimate of Man—Finitude, Freedom and Sin.—The Need of Salvation.

COURSES OF INSTRUCTION

SYSTEMATIC THEOLOGY 2A—THE DOCTRINE OF REDEMPTION

What think ye of Christ?—The significance of the Incarnation—Interpretations of the Atonement. (*Given in 1960-61.*)

SYSTEMATIC THEOLOGY 2B—THE DOCTRINE OF SANCTIFICATION

The Doctrine of the Holy Spirit—Eternal Life—Human Destiny—Divine Judgment. (*Given in 1960-61.*)

SYSTEMATIC THEOLOGY 3B—THE CHURCH, THE MINISTRY AND THE SACRAMENTS

The Nature and the Function of the Church in the light of traditional statements and modern Ecumenical discussions—Different views of the Ministry—The significance of the Sacraments of the Church. (*Not given in 1960-61.*)

PHILOSOPHY OF RELIGION

Associate Professor

Assistant Professor

J. McLELLAND

D. D. EVANS

PHILOSOPHY OF RELIGION 1A—INTRODUCTION TO THE PHILOSOPHY OF RELIGION

An introductory study of the nature of religious belief with an examination of its validity. Religious faith considered as the basis for a philosophy of life and an interpretation of the world, including moral and other values.

PHILOSOPHY OF RELIGION 2B—A STUDY OF THE PROBLEMS OF RELIGIOUS FAITH

The problems of pain and evil. An examination of the relation of religious beliefs to science, secularism, and materialism.

PHILOSOPHY OF RELIGION 3A—RELIGIOUS FAITH IN THE CONTEMPORARY WORLD

An examination of religion in relation to movements in the current moral and intellectual environment.

COMPARATIVE RELIGION

Professor

Lecturer

W. C. SMITH

C. J. ADAMS

COMPARATIVE RELIGION 2A—THE CHRISTIAN FAITH IN A RELIGIOUSLY PLURAL WORLD

The mutual confrontation of the Christian Church and communities of other faiths, in the modern world. The Christian moral imperative with regard to other communities; the search for an adequate theological position.

COMPARATIVE RELIGION 3B (OPTIONAL)—RELIGION IN THE ORIENT

The historical role and the religious significance of one of the great religious traditions of the Orient: the teachings, institutions, and historical development, so as to understand both the outward forms and what the faith means to its adherents today.

DIVINITY

Honours courses will be offered in Comparative Religion proper, philosophic and systematic. Further, instruction can be arranged in the basic languages of Islam (Arabic, Persian, Urdu) and, at an elementary level, of Hinduism (Hindi and Sanskrit, the latter in the Faculty of Graduate Studies, Department of Classics).

CHRISTIAN ETHICS AND PASTORAL PSYCHOLOGY

Lecturer

J. A. BOORMAN

CHRISTIAN ETHICS 2B—AN INTRODUCTORY STUDY

The sources, nature and relevance of the Christian Ethic. The application of Christian Ethics to such aspects of personal and social life as marriage, vocation, civil rights and responsible citizenship, economic and political problems, international relations.

CHRISTIAN ETHICS 3B (OPTIONAL)—CHRISTIAN SOCIAL ETHICS

The role of the Church in society today; a study of Christian influence in community, state and world affairs. The relevance of Christian Ethics to modern culture—art, science, business, education and recreation.

PASTORAL PSYCHOLOGY 2A—INTRODUCTION TO PASTORAL PSYCHOLOGY

Psychological studies as an aid to the minister: the psychology of personality; evangelism and worship; worship; conversion. Principles and methods of pastoral counselling.

PASTORAL PSYCHOLOGY 3B (OPTIONAL)—SPECIAL PROBLEMS IN PASTORAL COUNSELLING

The minister's role in the care of the physically and mentally sick. Counselling in the home and family; counselling in relation to the alcoholic, the delinquent, the convict, the aged and other forms of particular need. Pastoral counselling and auricular confession.

REGULATIONS FOR THE SUBMISSION OF THE B.D. THESIS

- (1) The presentation of an acceptable thesis is a requirement for the award of the degree.
- (2) Preparation of the thesis is to be regarded as an integral part of the course of studies required for the degree, whereby the candidate is given an opportunity to devote himself with personal originality and initiative to the study of some particular subject and thus to attest his worth and capacity as a responsible scholar. The thesis must be the candidate's own original work, and should display a real grasp of the selected subject, with an ability to organize the necessary material and to present it in an effective manner.

THESIS, GRADUATE STUDIES

(3) The thesis shall deal with some special aspect of theological study, and its subject should be chosen in consultation with the professor who is responsible for the department of study within which the proposed subject falls. When the subject is related to two departments, both professors should be consulted. Thereafter the subject must be approved by the Faculty.

Normally the subject of the thesis should be chosen during the Second year of the course. Thereafter, the candidate should confer from time to time as directed on the progress of the work with the professor or professors concerned, but it should be understood that the thesis cannot be approved as acceptable either in its parts or as a whole until the complete thesis is finally presented to the Faculty.

(4) Normally, a thesis presented for the general degree should contain from 10,000 to 15,000 words. A thesis for the degree with Honours should be of a more substantial character in matter and length, and should contain from 15,000 to 20,000 words. A memorandum relating to the literary form and style of the thesis may be obtained from the Dean's Office.

(5) The thesis must be written during the candidate's final year of attendance, and must be submitted not later than March 31st, of the year in which the final examinations are written.

If the thesis is rejected as unsatisfactory, the candidate may apply before June 30th of the same year for permission to re-submit it and, if such permission is granted by the Faculty, a date for re-submission will be prescribed.

GRADUATE STUDIES

The Faculty of Graduate Studies and Research directs and controls all courses leading to higher degrees and recommends candidates for these degrees. This arrangement includes graduate studies and research in Divinity. The Faculty offers courses leading to the degrees of Master of Theology (S.T.M.) and Doctor of Philosophy (Ph.D.).

REGULATIONS FOR THE S. T. M.

(1) The purpose of the S.T.M. course is to provide a richer intellectual background for the work of the Ministry in all its forms. It seeks to carry further and at a more scholarly level the education gained in the study for the B.D. degree.

DIVINITY

(2) The Faculty of Divinity acts as a committee of the Faculty of Graduate Studies in recommending to that Faculty the admission of a student to the course leading to the S.T.M. degree and in recommending that, when his work in his seminar courses has been satisfactory, and when the examiners are satisfied with his thesis, he be awarded the S.T.M. degree. Students must register with the Faculty of Graduate Studies, information concerning which may be obtained from the Dean of Graduate Studies. Nothing in these regulations should be held to contravene the general regulations of the Faculty of Graduate Studies. Students may first consult with the Dean of Divinity.

(3) Candidates shall normally possess the B.D. degree of a Canadian or American University or accredited college, or the theological degree of a British university or such other theological degree as may be deemed equivalent by the Faculty of Divinity. If his theological degree did not include the writing of a thesis, the candidate may be required either to write a qualifying thesis at the B.D. level or to produce other evidence of ability to write such a thesis.

(4) Each candidate for the S.T.M. degree shall attend three seminars and obtain not less than second-class standing in each, and shall also write a thesis to the satisfaction of one internal examiner and one external examiner, appointed by the Faculty of Graduate Studies. The subject of the thesis must be approved by the Faculty of Graduate Studies on the recommendation of the Faculty of Divinity.

(5) The required seminars shall each last for one academic session and the student's choice shall be guided by the Dean of Divinity in consultation with his colleagues. The seminars will not necessarily be closely related to the subject of a student's thesis. (Not all departments in the Faculty of Divinity offer a seminar in any particular session.)

(6) The thesis shall be the result of work on original sources, as far as these are available, and shall embody the student's appraisal of the relevant material and the conclusions he draws from it. The subject need not be one hitherto unworked, but the treatment must be fresh and the basic research the student's own. Great stress is laid at this level on acquaintance with primary sources, the orderly presentation of material, the cogency and clarity of its exposition, proper documentation, and the ability to conduct research in a scholarly manner. Each candidate for the S.T.M. will be assigned to a director for guidance in the preparation of his thesis. When a thesis has been judged unsatisfactory, it may, by permission of the Faculty of Graduate Studies, be revised and re-submitted, but not more than once.

REGULATIONS FOR THE Ph.D.

(7) A student whose thesis relates to the New Testament will be expected to work with the Greek Text and one whose thesis relates to the Old Testament the Hebrew Text. In either case, the student may be allowed to substitute two sessional courses of Hebrew studies for one seminar.

(8) A student may take three seminars in one academic session and submit his thesis at the end of that session, only if he is a full-time student. A part-time student may not take more than two seminars in any one session. He may if he so elects take one seminar in each of three sessions and present his thesis during a further session, but the whole must be completed in five years, unless permission is granted for an extension of time on the recommendation of the Faculty of Divinity.

REGULATIONS FOR THE Ph.D. (Divinity)

(1) The purpose of the Ph.D. course is to engage the student in academic studies at the highest level and to enable him to prepare himself for an academic career. Students not wishing to embark on such a career may take the course but it should be realized that this major aim conditions the course and the level of academic attainment required.

(2) The Faculty of Divinity acts as a Committee of the Faculty of Graduate Studies in recommending to the latter faculty the acceptance of students as prospective candidates for the degree of Ph.D. and in notifying the Dean of Graduate Studies of their progress in the various stages of the course. Nothing in these regulations should be held to contravene the general regulations of the Faculty of Graduate Studies, which may be obtained from the Dean of Graduate Studies. Students wishing to enter the course for the Ph.D. may first consult with the Dean of Divinity.

(3) The course normally requires three academic sessions of full time study, of which the year spent in S.T.M. studies may count as one. For permission to spend one session of study at another University, the student must consult with the Dean of Divinity. It is assumed that he will have a knowledge of Latin, Greek and Hebrew. He must also pass the Faculty of Graduate Studies' reading examination in French and German. Another European language may sometimes be substituted for French or German. *Candidates are urged to meet these language requirements before entering upon the Ph.D. course.* They may not proceed to their final year until they have done so.

(4) Each student is accepted on probation for his Second year of Ph.D. studies only after gaining his S.T.M. degree or its equivalent, with at least the standing of *cum laude*, and having obtained at least a good second class standing in his three S.T.M. seminars. During this year

DIVINITY

he may, if a full-time student, take three further seminars, so as to complete a total of six seminars. Not more than three of these six may be taken in any one department, and one seminar will be directed at ensuring that the student has the skills and background requisite for a teacher in his field of specialization. This Second year's work must be taken over a longer period if the student is registered as part-time.

(5) At the end of his Second year, the student must pass the Preliminary Examination, both written and oral, and must obtain at least a good second-class standing in the three seminars of that year, before he can be passed as an accepted candidate for the degree into his final and Third year.

(6) During his Third year (which again for the part-time student must be extended over a longer period) the student must prepare a thesis in the field of his specialized interest. The student is, however, advised to decide the field at the beginning of his Second year, in order that he may be assigned to a director who shall guide his research. The thesis must be submitted within three years after the termination of the Second year of Ph.D. studies unless the student receives special permission for an extension of this period.

GRADUATE SEMINARS

- | | |
|--|--|
| 67. THE EMERGENCE OF DOCTRINE IN THE APOSTOLIC FATHERS | <i>Professor Jay</i> |
| 77. THE NEW TESTAMENT DOCTRINE OF THE HOLY SPIRIT | <i>Professor Johnston</i> |
| 78. THE PASTORAL EPISTLES | <i>Professor Johnston</i> |
| 84. THE QUMRAN COMMUNITY | <i>Professor Frost</i> |
| 86. SOCIAL ETHICS AND CONTEMPORARY THOUGHT | <i>Professor McLelland and Dr. Boorman</i> |
| 90. INTRODUCTION TO CANADIAN CHURCH HISTORY | <i>Professor Walsh</i> |
| 91. PROBLEMS OF CHURCH AND STATE | <i>Professor Walsh</i> |
| 93. THE SOCIAL TEACHING OF THE CHRISTIAN CHURCHES SINCE 1900 | <i>Professor Walsh</i> |
| 94. SELECTED PSALMS (<i>Hebrew and Greek Texts and Exegesis</i>) | <i>Professor Frost</i> |
| 95. THE HISTORY OF THE HOUSE OF ZADOK | <i>Professor Frost</i> |
| 96. SYNCRETISM IN THE OLD TESTAMENT | <i>Professor Frost</i> |
| 101. THE CONCEPT OF FAITH IN ISLAM | <i>Professor Smith</i> |
| 103. SEMINAR IN COMPARATIVE RELIGION | <i>Professor Smith, Dr. Adams</i> |
| 105. CHRISTIANITY AND OTHER RELIGIONS | <i>Professor Smith</i> |
| 106. CHRISTIANITY AND ISLAM | <i>Professor Smith</i> |
| 107. DEVELOPMENT OF THE HINDU RELIGIOUS TRADITION | <i>Dr. Adams</i> |

McGill University

Montreal



Faculty of Graduate Studies and Research

1960-1961

PUBLICATIONS

The following official publications are issued by the University and may be obtained from the Registrar's Office.

Announcements of Faculties and Schools as follows:

General Announcement
School Certificate Examinations
Scholarships, Bursaries, and Loan Funds
Faculty of Arts and Science (Degrees in Liberal Arts and in Pure Science. There is a separate Announcement for the School of Commerce.)
Faculty of Medicine
Faculty of Medicine Postgraduate Courses
Faculty of Dentistry
Faculty of Engineering (Degrees in Engineering and in Architecture.)
Faculty of Law
Faculty of Music
Faculty of Divinity
Faculty of Graduate Studies and Research
School of Commerce
Institute of Education
Library School
School of Physical Education
School for Graduate Nurses
School of Physical and Occupational Therapy
School of Social Work
Macdonald College (Faculty of Agriculture, and School of Household Science.)
French Summer School
Extension Courses

The Directory of Staff (University administrative officers, standing committees, and officers of instruction. Limited distribution.)

The Calendar (available for distribution only to libraries and officials of certain institutions.)

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Faculty of Graduate Studies and Research

F. CYRIL JAMES, Chevalier de la Légion d'Honneur, B.Com., M.A., Ph.D.
D.Sc., D. de l'U., D.C.L., LL.D., F.R.S.C. *Principal*

DAVID L. THOMSON, Ph.D., D.Sc., LL.D., F.R.S.C. *Vice-Principal of the
University and Dean of the Faculty of Graduate Studies and Research*

C. W. STEARN, M.S., Ph.D. *Assistant Dean*

K. B. CALLARD, B.Sc. *Secretary of the Faculty of
Graduate Studies and Research*

J. H. HOLTON, B.Com. *Secretary of the Board of Governors*

G. A. GRIMSON, B.Com. *Comptroller*

COLIN M. McDUGALL, D.S.O., B.A. *Registrar*

A complete list of the teaching staff of the University, including the Faculty of Graduate Studies and Research, is printed as a separate announcement, which may be obtained from the Registrar's Office.

COMMITTEE ON RESEARCH

DEAN D. L. THOMSON, *Chairman*

PROFESSOR N. J. BERRILL	PROFESSOR J. S. MARSHALL
PROFESSOR G. L. D'OMBRAIN	PROFESSOR K. I. MELVILLE
PROFESSOR D. K. McE. KEVAN	PROFESSOR R. S. WALKER
PROFESSOR J. R. MALLORY	PROFESSOR E. C. WEBSTER

GRADUATE STUDIES

MEMBERS OF THE FACULTY (1960-1961)

PROFESSOR D. L. THOMSON (Biochemistry)—*Dean*
PROFESSOR C. C. BAYLEY (History)
PROFESSOR E. F. BEACH (Economics)
PROFESSOR R. E. BELL (Physics)
PROFESSOR N. J. BERRILL (Zoology)
PROFESSOR D. BINDRA (Psychology)
PROFESSOR J. B. BIRD (Geography)
PROFESSOR A. C. BLACKWOOD (Agricultural Bacteriology)
PROFESSOR J. W. BOYES (Genetics)
PROFESSOR J. S. L. BROWNE (Medicine)
PROFESSOR W. BRUCE (Mechanical Engineering)
PROFESSOR A. S. V. BURGEN (Physiology)
PROFESSOR B. D. BURNS (Physiology)
PROFESSOR K. B. CALLARD (Political Science)
PROFESSOR D. G. CAMERON (Medicine)
PROFESSOR T. W. M. CAMERON (Parasitology)
PROFESSOR R. V. CHRISTIE (Medicine)
PROFESSOR T. H. CLARK (Geology)
PROFESSOR R. A. CLEGHORN (Psychiatry)
PROFESSOR M. COHEN (Law)
PROFESSOR R. H. COMMON (Agricultural Chemistry)
PROFESSOR CARLETON CRAIG (Civil Engineering)
PROFESSOR E. W. CRAMPTON (Nutrition)
PROFESSOR G. L. D'OMBRAIN (Electrical Engineering)
PROFESSOR M. J. DUNBAR (Zoology)
PROFESSOR K. A. C. ELLIOTT (Biochemistry)
PROFESSOR G. A. FERGUSON (Psychology)
PROFESSOR H. N. FIELDHOUSE (History)
PROFESSOR H. G. FILES (English)
PROFESSOR CHARLES FOX (Mathematics)
PROFESSOR S. B. FROST (Divinity)

MEMBERS OF THE FACULTY

PROFESSOR J. E. GILL (Geology)
PROFESSOR F. K. HARE (Geography)
PROFESSOR D. O. HEBB (Psychology)
PROFESSOR JOYCE HEMLOW (English)
PROFESSOR T. G. HENDERSON (Philosophy)
PROFESSOR F. S. HOWES (Electrical Engineering)
PROFESSOR H. H. JASPER (Neurology)
PROFESSOR GERTRUDE KALZ (Bacteriology)
PROFESSOR D. K. McE. KEVAN (Entomology and Plant Pathology)
PROFESSOR RAYMOND KLIBANSKY (Philosophy)
PROFESSOR J. LANGMAN (Anatomy)
PROFESSOR J. E. L. LAUNAY (French)
PROFESSOR C. P. LEBLOND (Anatomy)
PROFESSOR T. LLOYD (Geography)
PROFESSOR P. F. McCULLAGH (Classics)
PROFESSOR J. U. MACEWAN (Metallurgy)
PROFESSOR D. L. MACFARLANE (Agricultural Economics)
PROFESSOR F. C. MACINTOSH (Physiology)
PROFESSOR G. C. McMILLAN (Pathology)
PROFESSOR J. R. MALLORY (Political Science)
PROFESSOR R. B. MALMO (Psychiatry)
PROFESSOR J. S. MARSHALL (Physics)
PROFESSOR K. I. MELVILLE (Pharmacology)
PROFESSOR E. MERCIER (Animal Science)
PROFESSOR D. L. MORDELL (Mechanical Engineering)
PROFESSOR F. O. MORRISON (Entomology)
PROFESSOR D. C. MUNROE (Education)
PROFESSOR H. R. MURRAY (Horticulture)
PROFESSOR R. V. V. NICHOLLS (Chemistry)
MR. RICHARD PENNINGTON (University Librarian)
PROFESSOR J. B. PHILLIPS (Chemical Engineering)
PROFESSOR C. B. PURVES (Chemistry)

GRADUATE STUDIES

PROFESSOR J. H. QUASTEL (Biochemistry)
PROFESSOR R. W. REED (Bacteriology)
PROFESSOR H. S. REISS (German)
PROFESSOR A. C. RITCHIE (Pathology)
PROFESSOR H. R. ROBERTSON (Surgery)
PROFESSOR MURIEL V. ROSCOE (Botany)
PROFESSOR E. ROSENTHALL (Mathematics)
PROFESSOR A. B. ROSEVEAR (Air and Space Law)
PROFESSOR VERNON ROSS (Library Science)
PROFESSOR H. I. SCHIFF (Chemistry)
PROFESSOR W. C. SMITH (Comparative Religion and Islamic Studies)
PROFESSOR D. N. SOLOMON (Sociology)
PROFESSOR H. SPENCE-SALES (Architecture)
PROFESSOR JOHN STANLEY (Zoology)
PROFESSOR C. W. STEARN (Geology)
PROFESSOR H. A. STEPPLER (Agronomy)
PROFESSOR J. S. STEVENSON (Geology)
PROFESSOR L. G. STEVENSON (History of Medicine)
PROFESSOR A. TAURINS (Chemistry)
PROFESSOR G. H. N. TOWERS (Botany)
MRS. ALICE TURNHAM (University Museums)
PROFESSOR ELEANOR H. VENNING (Medicine)
PROFESSOR R. S. WALKER (English)
PROFESSOR P. R. WALLACE (Mathematics)
PROFESSOR D. R. WEBSTER (Experimental Surgery)
PROFESSOR E. C. WEBSTER (Psychology)
PROFESSOR W. A. WESTLEY (Sociology)
PROFESSOR C. A. WINKLER (Chemistry)
PROFESSOR G. A. WOONTON (Physics)
PROFESSOR D. M. WRIGHT (Economics)
PROFESSOR LEO YAFFE (Chemistry)

GENERAL STATEMENT

1. The Faculty of Graduate Studies and Research directs and controls courses leading to higher degrees and recommends candidates for these degrees and for certain diplomas. The Dean's office is located at 3419 University Street, but all correspondence, telephone calls, etc., should be directed to McGill University rather than to University Street.

2. The members of the Faculty are appointed annually by the University Committee on Research (see page 2607) from among those members of the staff who are most active in research or in the training of graduate students. Under the University Statutes this Committee is responsible, jointly with the Graduate Faculty, for organizing and coordinating programmes and courses of research. The Dean of the Faculty is Chairman of the Committee.

ADMISSION

3. Advanced courses of instruction are offered to students who are graduates of any university of recognized standing, and who have at least second class honours, or the equivalent of at least second class honours as granted by McGill University, in the subject in which they desire to take their major work. This implies a standing in the upper half of the undergraduate class, at least, and a considerable amount of specialization, for example 36 semester hours of lectures in the subject selected. Admission to these advanced courses does not in itself imply candidacy for a higher degree or diploma. Every student admitted to the Faculty is, however, attached to one or other of the Departments thereof, which is primarily responsible for guiding his studies.

4. The attention of applicants for admission to the Faculty is directed to the Graduate Record Examination (Educational Testing Service, 20 Nassau Street, Princeton, N.J.). This examination consists of a relatively advanced test in the candidate's specialty, and a general test of his attainments in the several basic fields of knowledge, for which no special preparation is required or recommended. It is offered at many centres, including Montreal, several times a year; the entire examination occupies some eight hours, and the total fee does not exceed \$12.00. Applicants for admission to the Faculty are not required to take this examination, but those who have done so should submit their records therein; these will receive consideration along with other evidence of the candidate's admissibility. This credential is of especial importance in the case of applicants whose education has been interrupted, or has not led directly towards graduate study in the subject selected. In such cases the Department has the right to refuse to consider applications which do not include a report from the Graduate Record Examination or some

GRADUATE STUDIES

similar test; some Departments may require such reports of all applicants. High standing in this examination will not by itself guarantee admission. The Miller Analogies Test may be used similarly, and is required of applicants for admission in Psychology; enquiries should be directed to the Department of Psychology in the applicant's own university or college.

CLASSES OF STUDENTS

5. (a) Those admitted to the Faculty as regular students studying for a higher degree or diploma are termed "graduate students."

(b) Those students whose academic degrees and standing entitle them to admission to the Graduate Faculty, but who are not sufficiently prepared to undertake graduate study in the subject selected, may with the permission of the Dean and the Department concerned be permitted to take a "qualifying year" of further undergraduate studies. Qualifying students are registered in the Graduate Faculty, but not as candidates for a degree. For registration procedure, see Section 6 (b) and (c); for fees, see Section 10 (a). Completion of the work of the qualifying year does not automatically entitle the student to proceed towards a higher degree. Students who are ineligible for a qualifying year may apply to the appropriate undergraduate Faculty for admission as regular or partial students, and seek admission to the Graduate Faculty at a later date.

(c) Those qualified students who are permitted to take one or more courses in the Graduate Faculty, without intention of proceeding to a degree or diploma awarded by this Faculty, are termed "partial students of the Graduate Faculty". In the same category are included students carrying on research in McGill laboratories, without intention of proceeding to a degree. For fees see Section 20. If graduate partial students subsequently become candidates for higher degrees, they will normally receive academic credit and sometimes deduction of fees for relevant graduate courses taken as partial students. Students who wish to take further undergraduate courses only should register as "partial students" in the undergraduate Faculty concerned, even if they already hold degrees.

(d) "Resident Students" are those who in any given session are attending classes or making use of the university's libraries or laboratories or other facilities, either on a full-time or (see Section 31a) half-time basis; for "Non-resident Students" see Sections 6(e), 10(d), 12, 13 and 44(c).

(e) Regular graduate students taking evening courses required for their degrees *must* register also with the Extension Department, though one fee covers both.

APPLICATION AND REGISTRATION

6. (a) Applications for admission should be made in triplicate on special printed forms which may be obtained at the Dean's office. Applicants

APPLICATION AND REGISTRATION

who are not McGill graduates must submit two certified copies of their complete academic record, and are required to ask two instructors familiar with their work to send letters of recommendation to the Dean or to the Department concerned. It is desirable to submit a list of the titles of courses taken in the major subject, since transcripts often give code numbers only. The applicant should also indicate the branch of the major subject in which further training is desired. A passport-type photograph should also be supplied, either with the application or after it has been accepted. The application forms, duly signed, should reach the Dean's office as early as possible and in no case later than September 9th, 1960, after which date a late fee of \$5.00 will be charged. If the application is approved by the Dean and the Department concerned, one copy of the form will be returned to the applicant.

The course leading to the M.A. in Education (see p. 2665) normally begins with a Summer School, so that there are different dates for application and registration in this case. Last day for submission of applications in 1960 is June 15th. The school commences on July 4th, which is also the last day for the submission of sessional registration forms.

(b) Approved candidates must consult the Department or Departments in which they intend to study, with regard to choice of courses and subject of investigation. Formal application for permission to attend the courses selected, and for approval of the subject of investigation, must then be made in triplicate on special Registration Forms obtainable from the Dean's office. Language examinations (Section 52) should be entered on these forms, if required. These forms require the signature of the candidate, of the Chairman or Chairmen of the Departments concerned, and of the Professor appointed to act as director of the candidate's research, and are normally completed in consultation with the Department; students are warned that it may take a day or two to arrange and complete such consultations. The completed forms should be filed in the Dean's office as early as possible, and at the latest by September 21st; after this date a late fee will be charged. Candidates should in any case be prepared to attend the regular courses of instruction, which begin on September 26th.

(c) The registration forms will be scrutinized by the Dean and the Committee on Research, and if approval is given one copy will be returned to the candidate, who must then present it without delay at the Registrar's office. The student will meanwhile attend lectures, etc., on the assumption that his registration will be approved; but will not be given credit for attendance until he has completed registration at the Registrar's office. Candidates must register in this way, and pay their fees not later than October 21st; otherwise the prescribed penalty for late registration and late payment of fees will be enforced.

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(d) Candidates whose studies extend over more than one year must register at the Dean's office and at the Registrar's office, as above, at the commencement of each year of their course; if they have not so registered at the beginning of the academic year, they are not eligible to receive their degrees at the following Convocations. This applies also to non-resident candidates working at another institution (see Section 44).

(e) Candidates who have completed their courses and their residence requirement but have not yet completed their theses must register with the offices of both the Dean and the Registrar at the beginning of each session, and pay a fee of \$25, if resident, or a registration fee of \$10, if non-resident.

Candidates who, through failure to register as above, have severed their connection with the Faculty can be reinstated only (1) if the Department concerned so recommends, in writing, suggesting the imposition of such conditions as seem desirable: and (2) after paying a fee of \$10 for each session of non-registration but not to exceed a total of \$50, such re-admission fees not to include the fee for the session for which re-admission may be granted.

By annual registration, as above, candidates may maintain their connection with the Faculty for five (5) years after completing their course and residence requirements; thereafter, they may re-register only if the Department concerned so recommends, in writing, suggesting the imposition of such conditions as may seem desirable. The object of this regulation is to encourage candidates to complete their thesis and qualify for the degree without undue delay.

(f) In some Departments it is in special cases possible to admit selected candidates at unusual times, for example at the beginning of the second term (January 3rd) or at the beginning of the summer.

(g) Regulations concerning application and registration for the diplomas awarded by this Faculty will be found under Electrical Engineering (p. 2668) and Mechanical Engineering (p. 2722), and for the Certificate of Graduate Studies in Education (p. 2667).

DEGREES AND DIPLOMAS

7. Graduate students may proceed to one or other of the following degrees: Master of Library Science (M.L.S.), Master of Architecture (M.Arch.), Master of Science (M.Sc.), Master of Science (Applied), [M.Sc. (Appl.)], Master of Engineering (M.Eng.), Master of Arts (M.A.), Master of Sacred Theology (S.T.M.), Master of Civil Law (M.C.L.), Master of Laws (LL.M.), Doctor of Philosophy (Ph.D.), or to a Diploma in Electrical or Mechanical Engineering or Certificate of Graduate Studies in Education.

COURSES AT MACDONALD COLLEGE

8. (a) Graduate students who are taking the major part of their work at Macdonald College may go into residence there and may take, when required, other graduate courses given at the University.

(b) Students wishing to reside in Macdonald College should send in their application for accommodation to the Registrar, Macdonald College, Que., as soon as possible.

(c) Any fees in connection with courses taken at Macdonald College are payable to the Secretary of Macdonald College.

FELLOWSHIPS, SCHOLARSHIPS, AND MEDALS

9. (a) Details of Fellowships, Scholarships, Bursaries, Medals, and Loan Funds available for graduate students will be found in the Announcement of Scholarships, Bursaries, Prizes, and Medals, obtainable from the Registrar.

The following Graduate Fellowships and Scholarships are offered at McGill University to graduates of other approved institutions:

The University Fellowships, normally of \$1200 plus fees, and University Graduate Scholarships of lesser value.

The Arthur C. Tagge Fellowship of \$1200 plus fees in the Humanities and Social Sciences.

The W. M. Birks Fellowship of \$1200 in Theology.

The Bronfman Fellowships of \$1700 in Economics and Commerce.

The Alexander Mackenzie Fellowship of \$1200 plus fees in Political Science.

The Sir Vincent Meredith Fellowship of \$2,500 in Agricultural Economics.

The Dow-Hickson Fellowships (minimum value \$1750) in Philosophy and in Physics.

The Union Carbide Fellowships of \$1500 in the Natural and Social Sciences and one in the Pulp and Paper Research Institute.

The Philip Carpenter Fellowship in Zoology.

The Leroy Memorial Fellowship of \$700 in Geology.

The Alexander McFee Fellowship of \$1750 in Chemistry (1960) and Medical Sciences (1961).

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The Harold H. Helm Fellowships for McGill graduates at Princeton University Graduate School or Princeton graduates at McGill University, of the value of \$1400 to \$1800 plus fees.

The Cominco Fellowship of \$1000 for research on metals, chemicals, or fertilizers.

The Shell Oil Fellowship of \$1200 plus a grant for summer study, in Chemistry, Mechanical Engineering, Geology, or Physics.

The Aluminum Laboratories Fellowship of \$1600 plus fees, in Physical Metallurgy and related subjects.

The T. Sterry Hunt Scholarship of \$600, in Chemistry and Chemical Engineering, for holders of a Master's or other higher degree.

The C.I.L. Fellowships of \$2000 in Chemistry (Canadian citizens given preference).

The Gottesman (\$1500), American Viscose Corporation (\$2000), and Spruce Falls (\$1800) Fellowships tenable in Pulp and Paper Research.

The Allied Chemical and Dye Corporation Fellowship of \$1500 for an unmarried man (\$2000 for a married man) plus tuition fees, in Cellulose Chemistry.

The Celanese Fellowship of \$1500 in Industrial and Cellulose Chemistry.

The Harold Hibbert Memorial Fellowship of approximately \$4000 for postdoctoral research work in Chemistry.

The James Douglas Fellowship in Pathology.

The J. B. Collip Fellowships in Medical Sciences.

The H. W. Molson Fellowship of not less than \$1000 for Cancer Research.

The John McCrae Fellowship of \$1000 in Experimental Surgery.
Fellowships in Neurology and Neurosurgery.

In most cases application should be made to the Dean of the Graduate Faculty prior to February 1st. Details of these awards, and of awards offered by other sources but tenable at McGill, are given in the Scholarships Announcement, obtainable from the Registrar's Office.

Application for the awards made by this Faculty should be made on forms obtainable from the Dean's Office and must be accompanied by application for admission (if this has not already been secured), supported by transcripts, testimonials, etc.

(b) In several Departments graduate students are eligible for demonstratorships and assistantships. Information concerning these may be obtained from the Chairman of the Department concerned.

F E E S

The University reserves the right to change any fee without notice.

10. (a) The inclusive fee for a *full time session of resident study* (e.g. a Qualifying Year, the required year for the Master's degree, of the two required years for the M.Sc. (Applied) in Mineral Exploration, or each of the three required years for the Ph.D.) is \$425.00. Full-time Assistant and Associate Professors and Lecturers are eligible to apply for a rebate on these fees.

(b) The inclusive fee for a *half-session of full-time study* or for a *session of half-time study* (see Section 31) is \$250.00.

(c) The fee for an *additional session of resident study*, beyond the required year for the Master's degree or the three required years for the Ph.D., for students in good standing whether full-time or half-time, is \$25.00.

(d) The registration fee for a *session not spent in residence* (see Sections 5d, 6e, 13, and 44) is \$10.00.

(e) The additional fee for a degree conferred *in absentia* is \$10.00.

11. The above fees for resident students are inclusive, and cover tuition, graduation, the use of laboratories and libraries, the health service and athletic privileges, and membership in the Postgraduate Students' Society. There is no additional charge for the use of such university facilities as may be available in the summer following the academic session. Additional fees are however charged as set forth below, for special and supplemental examinations, for the re-examination of revised theses, for the repetition of uncompleted courses, and for late registration, etc. Any student taking a lecture course or doing laboratory work, or receiving regular guidance or consultation from any member of the staff, is considered to be in residence. He must register and pay fees as above. For payment by instalments, see Section 21.

12. A Ph.D. candidate permitted to spend either the Second or the Third year of his course at an approved institution elsewhere (see Section 44c) must register at the Dean's office and with the Registrar at McGill as a non-resident student, and pay a fee of \$10.00.

13. (a) A student who has completed his courses and his residence but has not completed his thesis must register at the Dean's office and with

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the Registrar, and pay a registration fee of \$10, at the beginning of each session until his thesis has been accepted (see Section 6e). Such a student is not considered to be in residence, and the \$10 fee does not give the student access to the libraries or laboratories, nor health and athletic privileges, nor membership in the Postgraduate Students' Society.

(b) Registration is also required when a student has completed all requirements except for one or more examinations. The fee in this case will be \$10.00 (non-resident) or \$25.00 (resident), in addition to any fees due for special examinations (Section 16, 17).

14. A candidate whose thesis is judged unsatisfactory by the examiners may be permitted by the Faculty to present a revised thesis once again, for a subsequent Convocation, upon payment of the following fees:

Master's degree.....	\$20.00
Ph.D. degree.....	35.00

15. A registration fee of \$10.00 (see Section 13) is also payable if a new session of non-resident study is entered; if the student remains in residence for an additional session, the fee of \$25 (see Section 10c) will be charged instead of the registration fee, and in addition to the re-examination fee.

16. Fees for supplemental examinations, granted under special circumstances by permission of the Dean on the recommendation of the Department, are payable in advance at \$10.00 per paper. A student who has failed in any required course and does not receive permission to attempt a supplemental examination must retire from the Faculty. Only under exceptional circumstances may permission be granted by the Dean, on the recommendation of the Department, for the student to repeat any such course. In such a case the student must pay the fee required of partial students for the course in question (see Section 20) in addition to fees applicable under Sections 10 and 15, but does not pay for supplemental examinations.

17. There is no fee for the language examinations for Ph.D. students (see Section 52) when these are first taken. A fee of \$5.00 is however charged when these examinations are retaken after a previous failure.

18. French Summer School students who are proceeding to the M.A. degree are liable for the regular fee of \$425 for the M.A. course but are remitted \$103.75 of this for each Summer Session they have attended in the advanced course. At the end of the second Summer Session they are required to apply for and obtain admission to the Faculty of Graduate Studies (see Section 6a), but they do not register therein (Sections 6b,

c, d) until the end of the fourth Summer Session; at that time they must register on sessional forms at the Dean's office, as "non-resident students", and pay the balance still owing of the M.A. fee. If the presentation of the thesis is postponed beyond the September one year after this registration, they will pay an additional registration fee of \$10.00 at the beginning of each session until the thesis has been accepted. Students who have completed four Summer Sessions in French (or the equivalent) are excused the *in absentia* fee (see Section 10e) when they obtain an M.A. degree.

19. Students permitted to work for the High School Diploma and for the M.A. concurrently, spreading the work for the M.A. over two years, pay the fee for the Diploma course in the first and the normal fee of \$425.00 for the M.A. degree in the second of these years.

20. The normal fee for "partial students of the Graduate Faculty" as defined in Section 5b is \$115.00 per full course; special fees may be required for certain laboratory courses. A partial student carrying on research in McGill laboratories, but not taking courses, will normally pay \$115.00 per session. Partial students must also pay the Grounds fee of \$5.00 and, if taking three or more full courses, the Health Service fee of \$7.00 and Student's Activities fee of \$5.00.

21. Fees are due and payable at the Accounting Office on or before October 21st. If paid by instalments the second instalment is due on January 14th. An additional \$5.00 is charged for payment by instalments. An additional \$2.00 is charged for payment after the specified dates.

22. Immediately after October 21st a list of students who have not paid their fees is sent to the Dean of the Faculty, who removes their names from the register of attendance. Such students cannot be re-admitted to any class until instructions have been received from the Chief Accountant that the fees have been paid.

23. Late fees are charged as follows:

Application forms, after September 9th.....	\$5.00
Registration at Dean's Office, after September 21st.....	5.00
Registration at Registrar's Office, after October 21st.....	5.00
Payment of fees, after October 21st.....	2.00

24. All resident graduate students, except partials, are entitled to the same health and athletic privileges as undergraduates, without additional fee:

(a) Medical examination (compulsory); daily consultation service and hospital treatment.

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(b) Access to the gymnasium, swimming pool, and tennis courts (additional fee for summer vacation).

(c) Opportunities for exercise with various athletic clubs and eligibility for intercollegiate and other teams.

(d) Admission (by identity card) to the students' section at all intercollegiate games played at McGill.

(e) At Macdonald College slightly different rules apply, see also regulation 25.

25. At Macdonald College, graduate students are entitled to medical attendance, major operations excepted, on the same basis as other students. Graduate students at Macdonald College are entitled to participate in the activities of the various organizations under the Students' Council and to have one representative on the Students' Council.

26. All resident students of the Faculty of Graduate Studies and Research are members of the Postgraduate Students' Society.

27. All fees are payable in Canadian currency.

RESEARCH ASSOCIATES

28. This title is intended to provide recognition and status on the University records for investigators who are neither candidates for a degree nor members of the regular teaching staff of McGill University, but are attached temporarily to a department on the ground that their assistance is required in the interests of a current programme of research.

29. A Research Associate will normally hold the Ph.D. degree or an equivalent qualification.

30. Any money grant which a Research Associate may receive must be either from McGill University or from some other institution promoting the advancement of learning, and must be paid solely for the furtherance of the research that he is pursuing and not for instruction or demonstration. A Research Associate may, however, with the permission of the Faculty, act as a director of research for graduate students associated with him.

GENERAL RULES CONCERNING HIGHER DEGREES

31. (a) A graduate student is expected to devote his full time to his courses, reading, and research in each session counted towards completion of residence requirements. Members of the teaching staff of the University who are also students in the Graduate Faculty and who give more than three hours of lecturing or six hours of conference work or twelve hours of supervisory work in laboratories and allied services per week, and other students doing an equivalent amount of additional work inside or outside

CLASSIFICATION OF MARKS

the University, may not obtain the Master's degree in one year, and will require at least four years for the Ph.D. At least one of the years required for either degree must be spread over two sessions, in each of which such students will be registered as *half-time* workers and will pay a fee of \$250.00.

(b) No full-time student registered in any professional Faculty of the University may register for a graduate degree or for a qualifying year without the special permission of both Faculties.

(c) Students assisted by the Department of Veterans' Affairs are not considered to be "full-time" if they are giving more than nine hours per week to demonstrating and similar services.

(d) A degree is granted in the Faculty of Graduate Studies essentially for work in one subject, known as the student's *major subject*. Certain allied or "cognate" courses in other subjects may be permitted or required; these must be entered on the sessional registration form, which must show whether the courses are to be taken for credit, including examination, or merely attended, and which must be signed by the Chairmen of the Departments concerned.

(e) There is no fixed number of course credits required for these degrees. The Department concerned will rather examine the applicant's previous training, undergraduate and graduate, and then decide how many of the available courses in the major subject and related fields are still required to bring the candidate to the proper level for the Master's degree or Ph. D. The satisfactory completion of such essential courses and the presentation of an acceptable thesis are two separate requirements which must be separately met. Due account will be taken of all relevant courses passed at any recognized University or College.

(f) A candidate with a given higher degree may be permitted to proceed to a second degree of the same kind, but in another subject, provided that the usual requirements for the degree are entirely fulfilled and approved as usual by the Department concerned. In the computation of fees for such second degree, no account will be taken of the student's previous registration in the Graduate Faculty.

(g) Students should note that the above rules apply to the Faculty as a whole; a Department may have additional rules of its own.

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32. 100-80%.....	First Class
79-65%.....	Second Class
Below 65%.....	Failure

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This classification applies also to students taking a Qualifying Year.

Students who obtain marks between 50 and 64% in courses not required for the degree sought may, on recommendation of the major Department, be recorded as having "passed at the undergraduate level."

Students who have failed in required examinations are permitted to write supplemental examinations only on the recommendation of the major Department and with the permission of the Dean (see Section 16.)

THE MASTER'S DEGREE

33. (a) Normal Procedure for the Master's Degree.

At least one full session or two half-sessions of resident study at McGill University is required for a Master's degree; this is a minimum requirement, and it will usually be found impossible to complete the work for the degree within this time; the M.Sc. (Applied), the M.A. in Islamic Studies, the M.Arch. in Community Planning, and the LL.M. cannot be completed within one academic session, and the M.A. in Education requires participation in two Summer Schools as well as in a part-time winter session. Residence credit is not given for work done during the summer vacation, either at McGill (save in the French Summer School and in Education) or elsewhere; the majority of graduate students find it necessary, however, to devote the greater part of their summers to work upon the thesis problem. The procedure to be followed in applying for admission and in completing registration is described above (Section 6). The candidate is required to pass the examinations in the courses which have been indicated to him by the Department and which are recorded on his approved registration form (except such courses as are marked "not for examination") and he may also be required to pass a general examination in his major subject; the marks or classes he obtains in these examinations are part of his qualifications for the degree. The candidate must also present a thesis on some topic connected with his major subject, except in the case of the Master of Science (Applied). The title of the thesis may be entered upon the registration form, and if not decided at that date must be subsequently submitted, in writing, to the Chairman of the Department concerned and to the Dean for formal approval at least four months before the thesis is handed in. The thesis must be in some measure a contribution to knowledge and must also be written in good literary style. *For further regulations regarding theses, see Section 59, 60, and 61.*

(b) Candidates who intend to proceed later to the Doctor's degree should note the language requirements (Section 52) and are strongly advised to take the examination in at least one language while working for the Master's degree.

THE MASTER'S DEGREE

34. Special Concessions for Civil Servants.

With regard to the M.Sc. and M.Eng. (which may be the First year of the Ph.D. course), the following concessions are approved:

(a) Candidates for the degrees of M.Sc or M.Eng. who are graduates of McGill University and have had two or more years' experience in a Government Department, performing as their main duty work of the same type as that proposed for research, may, on recommendation of a Department and with the approval of the Faculty, have their residence requirements reduced to one half-session only. It is understood that these candidates must take the usual final examination in all subjects required. The full sessional fee is payable.

No special concessions can be made to Civil Servants who are graduates of universities other than McGill.

(b) A Government laboratory may be approved by the Faculty as a research institution (see Section 44c).

35. The Degree of Master of Arts.

(a) Instruction in the Faculty of Graduate Studies and Research leading to the degree of Master of Arts is provided in the following Departments of study, which rank as "subjects":

Classics	History
Comparative Religion	Islamic Studies
Economics and Political Science	Mathematics
Education	Philosophy
English Language and Literature	Psychology
French Language and Literature	Sociology and
Geography	Anthropology
German	

Studies in other subjects, including sciences and certain theological studies (see p. 2656), may be undertaken as cognate courses only, and only with the permission of the Departments concerned.

(b) Candidates must hold the degree of B.A. They must have obtained at least a second class in an Honours course at McGill University, or its equivalent elsewhere, in the subject or subjects which they propose to study.

(c) The degree of Master of Social Work is administered by the Faculty of Arts and Science; enquiries should be addressed to the Director of the School of Social Work.

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36. The Degree of Master of Science.

(a) Instruction in the Faculty of Graduate Studies and Research leading to the degree of Master of Science is provided in the following Departments of study:

Agricultural Bacteriology	Investigative Medicine
Agricultural Chemistry	Mathematics
Agronomy	Metallurgy
Anatomy	Meteorology
Bacteriology and Immunology	Neurology and Neurosurgery
Biochemistry	Nutrition
Botany	Parasitology
Chemistry	Pathology
Electrical Communications	Pharmacology
Entomology	Physics
Experimental Medicine	Physiology
Experimental Surgery	Plant Pathology
Fluid Mechanics	Poultry Husbandry
Genetics	Psychiatry
Geography	Psychology
Geological Sciences	Zoology
Horticulture	

(b) Candidates must hold a Bachelor's degree with at least second class in an Honours course at McGill University, or its equivalent. Candidates with an M.D. degree must have attained high standing.

37. The Degree of Master of Engineering.

(a) Instruction for the degree of Master of Engineering is given in the following Departments of study, which rank as "subjects," in which definite courses may be selected:

Chemical Engineering
Civil Engineering
Electrical Engineering
Mechanical Engineering
Metallurgical Engineering
Mining Engineering

THE MASTER'S DEGREE

(b) Candidates must hold the degree of Bachelor of Engineering, or an equivalent degree, and their undergraduate academic rank must, in general, be equivalent to high second-class standing.

(c) The establishment of the degree of Master of Engineering does not prevent a properly qualified holder of the degree of Bachelor of Engineering, or the equivalent, from proceeding to the degree of Master of Science in pure science.

38. The Degree of Master of Architecture.

(a) Instruction for the degree of Master of Architecture is given in the following Departments of study, which rank as "subjects."

Architectural Design
Community Planning
Housing

(b) Candidates must hold the degree of Bachelor of Architecture or an equivalent degree, and their undergraduate rank must, in general, be equivalent to high second-class standing.

(c) One only of the above subjects may be taken

Each candidate is required to take at least one course in his subject involving at least one year of resident study; in the Community Planning option requirements can not be completed in one year.

In addition he is required to meet in personal conference at least once a week the professor under whose supervision he is preparing his thesis.

39. Master's Degrees in Law.

(a) Instruction leading to the degree of Master of Civil Law (M.C.L.) is offered in the following departments of study:

Roman Law
Civil Law
Commercial and Maritime Law
Public Law, including International Law

At least one session of full-time resident study, or its equivalent, is required; this includes the passing of one or more courses and the preparation, under supervision, of an acceptable thesis.

(b) The degree of Master of Laws (LL.M.) is offered in the Institute of Air and Space Law only. The curriculum involves one full-time session of resident study including prescribed and elective courses; students whose work has been found satisfactory will be permitted to complete requirements for the degree by submitting an acceptable dissertation in a subsequent session, which need not be spent in residence.

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(c) Applicants for admission to candidacy for the M.C.L. or LL.M. must hold an acceptable degree in Law or equivalent qualifications. For further particulars see page 2708, or consult the Secretary of the Faculty of Law.

40. The Degree of Master of Commerce.

This degree is at present suspended pending reconsideration.

41. The Degree of Master of Library Science.

The candidate must hold the degree of Bachelor of Library Science, or an equivalent degree, from an accredited Library School approved by McGill University. This degree must represent a fifth year of academic study in which the candidate has obtained at least a B average. Competence to undertake graduate study must have been demonstrated and at least two years of professional library experience is required. The student must show evidence of a reading knowledge of at least one language other than English before the degree is granted. The French language is recommended but another language may be accepted if appropriate to the work which the candidate intends to undertake. If courses taken previously by the candidate are considered inadequate for the graduate courses offered he may be required to undertake some additional courses in the Library School or elsewhere in the University.

Candidates should notify the Director of the Library School of their intention to follow the course leading to the M.L.S. degree as early as possible, preferably before August 1st. Formal application to the Faculty of Graduate Studies and Research should be made before September 9th.

42. Master's Degree in Theology.

(a) Applicants for admission to the course leading to the degree of *Sanctæ Theologiæ Magister* (S.T.M.) must hold the B.A. degree and the degree of B.D., or its equivalent, from a recognized university, college, or seminary. They must have sufficiently high academic standing and adequate preliminary training, including a knowledge of the requisite ancient or modern languages, for higher studies in the field selected. The M.A. is offered as well as the S.T.M., in the field of Comparative Religion, which is therefore open to other qualified applicants who do not hold the B.D. or equivalent.

(b) Candidates must undertake full-time resident study at McGill University for at least one academic session or two half-sessions, during which they will prepare for the examinations in the courses to which they are assigned. A thesis on an approved subject within the major field selected is a further requirement for the degree. For further particulars see page 2656.

43. Master's Degree in Science (Applied).

The degree of Master of Science (Applied) was established in 1949 to permit approved Departments to offer postgraduate training of a professional and vocational character, with less emphasis on theoretical knowledge and research than in other degrees of this Faculty but with no lower standards either for admission or for completion of requirements. Curricula of this type are at present available only in the Departments of Psychology and Geological Sciences (Mineral Exploration), whose statements herein should be consulted, and lead to the degree of Master of Science (Applied) [M.Sc.(Appl.)]. (See pages 2696 & 2754.)

REGULATIONS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY (Ph.D.)

44. (a) Candidates for the degree of Doctor of Philosophy must hold the degree of B.A. with Honours, or B.Sc. with Honours, or B.Eng. or B.Com., or B.Sc. (Agr.) or M.D., with at least good second-class standing in each case, from McGill University, or some equivalent qualification.

(b) Many Departments will require candidates who do not already hold an appropriate Master's degree to register for the M.A. or M.Sc. rather than for the Ph.D. direct; but may later recommend to the Committee on Research that candidates of undoubted promise should be allowed to proceed directly towards the Ph.D. without being required to submit a Master's thesis; in other cases, permission to proceed towards the Ph.D. may depend on the standing obtained in the Master's degree.

(c) Candidates must follow a course of at least three years' resident study at a University or other institution of higher learning or research; this is a minimum requirement, and there is no guarantee that the work for the degree can be completed in this time. Two at least of these years must be spent at McGill University, and these should if possible include the final year. Departments may permit or require candidates to spend one session at another institution approved by the Committee on Research (for fees, etc., see Section 12); it is understood that this session must be one of full-time study, and that the institution selected must be able to provide expert supervision and facilities for research appropriate to the candidate, in the field selected. Candidates are therefore required to submit a programme of the work projected and particulars of the institution selected, for approval by the Committee, before undertaking any such period of study apart. They must register at McGill as non-resident students; and the Committee may require reports on progress from time

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to time or at the end of the period for which credit is claimed. The Faculty may make special exceptions to these general regulations concerning residence; it may permit McGill graduates, for example, to spend two years in study apart at approved institutions and to reside at McGill for the final year only. Residence credit is not granted for work done during the summer vacations, either at McGill or elsewhere; but it is the custom for candidates to spend the greater part of each summer in work upon the thesis problem, and those who do not do so are unlikely to complete a satisfactory thesis in the prescribed minimum time; in certain subjects, *e.g.* in Agricultural sciences, summer researches are indispensable.

45. A student who has obtained his Master's degree at McGill University or at an approved institution elsewhere, and is proceeding in the same subject to a Ph.D. may, on recommendation of the Department, be permitted to count the work done for the former as the first year of his resident study for the Doctor's degree (see Section 44). The attention of students seeking admission on this basis is drawn to the language requirements (Section 52d), for which they are advised to prepare themselves in advance.

46. Candidates must select one major subject (see Section 31d). Courses leading to the degree of Doctor of Philosophy are offered in the following as major subjects:

Agricultural Bacteriology	Geological Sciences
Agricultural Chemistry	History
Agronomy	Investigative Medicine
Anatomy	Mathematics
Bacteriology and Immunology	Meteorology
Biochemistry	Neurology and Neurosurgery
Botany	Parasitology
Chemistry	Pathology
Economics	Pharmacology
Electrical Engineering	Physics
English	Physiology
Entomology	Plant Pathology
Experimental Medicine	Political Science
Genetics	Psychology
Geography	Zoology

47. In special cases, other Departments may be authorized to provide courses which will lead to this degree. Candidates desiring to proceed

THE DOCTOR'S DEGREE

to the degree of Doctor of Philosophy in Departments other than those mentioned above should, therefore, make direct application to the Dean of Graduate Studies and Research, asking whether courses in such subjects can be provided.

48. The course of study which the candidate desires to follow must, before he enters upon it, have been submitted to the Chairmen of the several Departments concerned and have received their approval (see Section 6b).

49. **Preliminary Examination.** The first two years include instruction, training and direction in the candidate's field of study, with the object of giving him a knowledge of his particular subject and its relation to cognate branches of learning and of preparing him for independent investigation. The candidate's preliminary examination is held at the end of the second year, unless otherwise specified by Departmental regulations approved by the Faculty. This examination covers all graduate work previously taken by the candidate, including his prescribed reading, and may also include any work fundamental thereto. The candidate must show that he possesses a good general knowledge of the whole science or branch of learning which he has selected as his major subject. The examination may be written or oral or both. The result of this examination determines whether the candidate is allowed to proceed to his degree. The final year is devoted chiefly to the preparation of the thesis, the research for which is normally begun in the first year.

50. The candidate is also required to pass the examinations in the courses indicated by the Department, and recorded on his approved registration form, unless they have been marked "not for examination."

51. After the thesis has been received and approved, a final oral examination on the subject of the thesis and subjects more intimately related to it is held. This is conducted in the presence of a Committee of at least four members approved by the Faculty of Graduate Studies.

52. (a) Every candidate must satisfy the Faculty of Graduate Studies and Research that he has a reading knowledge of French and German; candidates may, however, seek the permission of the Dean to substitute another language for either French or German. The Departments of Agronomy, Parasitology, and Psychology may however require students to concentrate upon *one* foreign language, to be taken at a more advanced level.

(b) The candidate's major Department will select German passages for translation, typical of the subject, and will make arrangements for the examination. The Department of German must approve the passages

GRADUATE STUDIES

selected, and will correct the translations and decide whether the candidate has fulfilled the requirements; it may also require any candidate to appear for oral examination. The Department of French will set and conduct its examinations.

(c) The examination in German 500 may be written in the first two weeks of December; other dates may be arranged on recommendation of the Department to the Dean. Examinations in French 500 will be held on Friday, September 9th, and Friday, December 2nd, 1960, and on Friday, May 5th, 1961. Application should be made to the Dean's Office. A student will not ordinarily be permitted to attempt any language examination on more than two occasions in any one calendar year. There is no fee for these examinations when they are first taken. A fee of \$5.00 is however charged when these examinations are taken after a previous failure (see Section 17).

(d) Candidates are expected to take at least one language examination in the First year of the Ph.D. course, and the other not later than the Second year. Sessional registration forms (Section 6b) must indicate the student's intentions in this respect. Students admitted to the Second year of the Ph.D. course (Section 45) must discharge their language requirements as early as possible. Sessional registration forms which do not comply with these requirements may be rejected.

(e) The Department of German offers a course open to candidates for the Ph.D. degree and designed to help them to acquire the necessary reading knowledge of the language: two hours per week (see page 2698).

53. Thesis.

(a) The thesis for the Ph.D. degree must display original scholarship expressed in satisfactory literary form and be a distinct contribution to knowledge. The subject of this thesis must have been approved, in writing, by the Chairman of the Department in which the major subject is taken, and also by the Committee on Research, at least twelve months before the date of the final examination; the exact title may be decided later (Section 59d).

(b) Three copies of the thesis must be provided by the candidate; some Departments may require one or more additional copies.

(c) The regulations concerning theses are stated in Sections 59, 60, and 61.

54. Special regulations for the Ph.D. in Economics are stated on page 2663, in History on page 2699, and in Entomology on page 2676.

REGULATIONS CONCERNING THESES

59. (a) In the case of students who wish to graduate at the Spring Convocation, all theses for a Master's degree must be handed to the Dean of the Faculty of Graduate Studies and Research not later than April 13th, 1961.

(b) All theses for the degree of Ph.D. must be in the hands of the Dean not later than April 6th, 1961.

(c) The theses of students who wish to graduate with a Master's degree at the Fall Convocation must be in the hands of the Dean of the Faculty of Graduate Studies and Research not later than August 24th, 1960. In 1961 the deadline will also be August 24th.

(d) The theses of students who wish to graduate as Doctors of Philosophy at the Spring Convocation must be in the hands of the Dean not later than April 6th, 1961. The Ph.D. will not be conferred at the Fall Convocation, save in certain special cases defined below. Ph.D. theses, provided that their titles have been approved by the Department and submitted to the Dean at least four months earlier, may, however, be handed in to the Dean's office at any time. The Dean will then submit the thesis to the examiners, and the final oral examination will be held at the first convenient time after the examiners have reported; this will ordinarily be about one month after the submission of the thesis, but from June to September (inclusive) two months or more may be required. Candidates are advised to give the Dean's office one or two weeks notice of their intention to submit the thesis; this will lessen the risk of delay. If all other requirements have been met, the examiners' reports are favourable, and the final oral examination is passed, the Dean will issue a certificate stating that all requirements for the degree have been completed and that, subject to the concurrence of Faculty and Senate, the degree will be conferred at the next Spring Convocation.

In all other cases, eligible candidates who have not received the degree at the Spring Convocation *must* register for the following session. If the student has completed *all* requirements, including the final oral, before that following session commences in mid-September, no fee will be required; in all other cases a fee of \$10 (non-resident) or \$25 (resident) will be charged. Such students should also remember the \$10 fee for graduation *in absentia*.

The Ph.D. degree will be conferred at the Fall Convocation only in the following cases: (i) on candidates who had completed all requirements in time for the preceding Spring Convocation, but were prevented from graduating by illness or family misfortune; (ii) on students who, having

GRADUATE STUDIES

completed all other requirements in time for the preceding Spring Convocation, had one required examination outstanding, and who subsequently pass this examination not later than September 15th; (iii) on students who, having completed all other requirements (including the final oral examination) in time for the preceding Spring Convocation, have had their theses returned for minor or typographical corrections, and have been permitted to resubmit a revised form; provided that the revised thesis is resubmitted not later than June 30th and is found to be acceptable.

(e) The title of the thesis, as approved by the Department, must be submitted for approval by the Committee on Research at least four months before the thesis is handed in. The Dean may subsequently permit minor changes in the wording of the title.

60. All theses submitted by successful candidates for higher degrees are bound and placed in the Library. Candidates for such degrees are therefore advised that the Faculty of Graduate Studies and Research requires theses to be prepared in accordance with the following specifications:

(a) Theses must be typewritten and in triplicate; some Departments require a fourth copy. Ultimately one copy is deposited in the McGill Library, one in the Departmental Library, and one is returned to the candidate.

(b) The left-hand margin must have a uniform width of not less than $1\frac{1}{2}$ inches; this rule also applies to diagrams, etc. Drawings, maps, plates, etc., if larger than the prescribed page, may be folded and subsequently bound in only if the flap is not larger than 7×11 inches. Larger drawings, maps, etc., must be folded down to not more than 7×10 inches, so that they may be placed in pockets in binding.

(c) The paper must be of a good bond grade, and is to be of uniform size, $8\frac{1}{2} \times 11$ inches. Theses on inferior grades of paper will not be accepted. This applies to the first two copies.

(d) No binding is necessary, but the loose sheets must be placed, unfolded, in a manila envelope in the order of their pagination. On the outside of each envelope must be written clearly the name of the candidate, full title of thesis, department, degree, date, and Copy I, II, or III. Students are also asked to suggest a short title of not more than 55 letters (excluding their surname) for the lettering along the back of the bound copy.

(e) Copies of the thesis must be double-spaced and free from typographical and other errors, otherwise they will be returned to the candidate for revision, with consequent delay in the granting of the degree.

(f) Every thesis should have a sufficient table of contents and a thorough bibliography on the subject. Scientific theses should also contain an introductory historical statement of previous work or investigation, and a summary. In the case of the Ph.D. degree, there should be a clear statement of the claim of original work or contribution to knowledge made by the author.

(g) The candidate is required to declare, generally in the preface and specifically in the text of the thesis, the extent to which assistance has been given by members of the staff, fellow-students, technicians, or others, in the collection of material, the design and construction of apparatus, the performance of experiments, and the preparation of the thesis in general. This regulation does not apply to the normal supervision and advice given by the director of the candidate's research.

(h) If a thesis is rejected it cannot be submitted again, in a revised form, more than once (see Section 15).

(i) Unless there is a specific arrangement to the contrary, the candidate must understand that the University Library is free to allow the thesis to be consulted or borrowed, or to be issued in whole or in part in photostat or microfilm form.

(j) Candidates are warned that the preparation of the typescript may take longer than is expected, or may be interrupted by illness, etc.; and that it is most important that the candidate should carefully check the typescript for errors before the thesis is handed in.

SUMMARIES OR ABSTRACTS OF THESES

61. Three copies of a statement or abstract must also be presented, on a separate sheet, giving the author, title of thesis, and a summary not exceeding 150 words. One copy should be placed in each envelope, and the rules above as to format, margins, etc., will apply.

GRADUATE STUDIES

DEPARTMENT OF AGRICULTURAL BACTERIOLOGY

(Macdonald College)

Professor A. C. BLACKWOOD, *Chairman*

Associate Professor _____

Assistant Professor R. KNOWLES

Lecturer G. A. JONES

Adequate laboratory and library facilities are available for courses leading to higher degrees, and for research. Candidates for the higher degree must meet the course requirements satisfactorily but are judged principally for their ability in research. Normally in this department the research problem will be on microbial physiology or on microbiological aspects of soil or food.

COURSES FOR HIGHER DEGREES

- | | |
|--|----------------------------|
| 60. PHYSIOLOGY OF MICROORGANISMS (2 hours) | <i>Professor Blackwood</i> |
| 61. SOIL MICROBIOLOGY (2 hours) | <i>Dr. Knowles</i> |
| 62. FOOD MICROBIOLOGY (2 hours) | _____ |
| 63. GRADUATE SEMINAR (1 hour) | <i>Staff</i> |

All graduate students are required to present seminars on selected topics and to prepare and discuss reports from the current literature.

REQUIREMENTS FOR DEGREE OF MASTER OF SCIENCE

1. Candidates are required to have the B.Sc. (Agr.) degree with high standing, or its equivalent with sufficient training in the subjects of the courses chosen for the higher degree. Students who lack such training must take the required courses of the final undergraduate year as well as courses in such other subjects as the department may require.
2. To fulfil minimum requirements candidates must take courses 60 and 63.
3. A satisfactory thesis based on the candidate's research must be presented.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Candidates must demonstrate that they possess sound critical ability and capacity for research; they will be required to participate in the Graduate Seminar and may be required to take courses in other departments in cognate subjects.

AGRICULTURAL CHEMISTRY

DEPARTMENT OF AGRICULTURAL CHEMISTRY

(Macdonald College)

<i>Professors</i>	R. H. COMMON, <i>Chairman</i> W. A. DELONG H. G. DION
<i>Associate Professor</i>	B. E. BAKER
<i>Assistant Professor</i>	P. A. ANASTASSIADIS
<i>Lecturer</i>	G. O. HENNEBERRY

The Department works in close liaison with the Department of Physics, Macdonald College, and laboratory facilities for research thus include equipment for the use of radioactive tracers, X-ray spectrophotometry, differential thermal analysis, flame photometry, petrological microscopy of soils, electron microscopy, and mass spectrometry.

COURSES FOR HIGHER DEGREES

60. CHEMISTRY OF SOILS
2 lectures per week, second term. *Professor DeLong*
61. PLANT BIOCHEMISTRY
2 lectures per week, second term. *Professor DeLong*
(Not given in 1960-61.)
- 451 and 452. CHEMISTRY OF FOOD AND FEEDING STUFFS AND ADVANCED FOOD ANALYSIS
2 lectures per week, both terms. *Professor Common*
63. INDUSTRIAL UTILIZATION OF FARM PRODUCTS
2 lectures per week, second term *Professors Common and Baker*
Special laboratory work (three hours per week) may be required in any of these courses.

REQUIREMENTS FOR THE MASTER'S DEGREE

1. Candidates are required to have the B.Sc. (Agr.) degree with honours standing, or an equivalent qualification. Students holding a B.Sc. degree may be accepted if they have taken appropriate undergraduate work in chemistry with sufficient biology; otherwise a qualifying year will be required.
2. Candidates for the Master's degree are required to take the examinations in two of the courses for higher degrees given in the Department.

GRADUATE STUDIES

3. Candidates may be required to take the examination in one of the cognate courses listed below:

At Macdonald College:

Either Experimentation (Department of Agronomy, Course 44a) *or*
Advanced Biophysics (Department of Physics, Course A).

At McGill University in Montreal:

Theoretical Organic Chemistry (Department of Chemistry, Course 200).
Kinetic Theory and Chemical Kinetics (Department of Chemistry,
Course 44).

Chemical Thermodynamics and Electrochemistry (Department of
Chemistry, Course 35).

Cellulose, Lignin and Related Compounds (Department of Chemistry,
Course 203).

Protein Physical Chemistry (Department of Biochemistry, Course 44b).
Metabolism (Department of Biochemistry, Course 45).

REQUIREMENT FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Candidates will be judged principally by their ability in research. Special arrangements for course work will be made with the McGill Departments of Chemistry and Biochemistry.

DEPARTMENT OF AGRONOMY

(Macdonald College)

Professor

H. A. STEPPLER

Associate Professor

R. I. BRAWN

Assistant Professors

J. S. BUBAR

H. R. KLINCK

The research program of the department is concerned with most phases of agronomic investigations, with particular emphasis on problems in plant breeding. Many research studies are carried out jointly or in co-operation with other departments, e.g. Genetics, Soil Chemistry, etc.

COURSES OFFERED FOR HIGHER DEGREES

60. STATISTICAL METHODS

Three lectures per week—both terms.

Professor Steppler

64. SEMINAR

Weekly meetings; each student will present at least one seminar each term. All students must register for this course each year.

Staff

AGRONOMY

65. FORAGE CROP EXPERIMENTATION
Two lectures per week—one term.

Professor Steppeler

66. PLANT BREEDING
Three lectures per week—both terms.

Professors Brawn, Bubar and Klinck

67. METHODS OF AGRONOMIC RESEARCH
Two lectures per week—May to September.

Staff

70. ADVANCES IN AGRONOMY
One lecture per week—both terms.

Staff

75. COMPREHENSIVE PRELIMINARY EXAMINATION IN AGRONOMY
(See section 49 of this Announcement)

Staff

NOTE: A lecture may be replaced by a laboratory period of at least two hours

In addition to the general regulations of the Faculty of Graduate Studies, the Agronomy Department has the following requirements:

For the Degree of Master of Science:

(1) Candidates are required to have the B.Sc.(Agr.) degree with high standing, or an equivalent qualification, with sufficient basic training in the courses chosen for the higher degree. Students who lack such training must take the required courses of the undergraduate years, as well as courses in such other subjects as the department may require.

(2) Students will be required to take courses 60, 64 and 67 and at least one other course of those listed. In addition, they may be required to take courses in cognate subjects.

(3) Since the research problems generally involve field experimentation, students will require at least 18 months and more frequently two years to complete the research and hence the requirements for the degree.

For the Degree of Doctor of Philosophy:

(1) Candidates must have an M.Sc. degree with specialization in Agronomy and a high standing achieved in both course work and thesis.

(2) Students will be judged primarily by their ability in conducting research.

(3) Students will be required to take course 75. Courses 64 and 70 will be taken in each year of resident study. Students may also be directed to take such other courses in Agronomy or cognate subjects as the department requires. Students who take their M.Sc. at McGill may be required to spend one session in study at another University (see section 44c of this Announcement).

GRADUATE STUDIES

DEPARTMENT OF ANATOMY

<i>Professors</i>	C. P. LEBLOND, <i>Chairman</i> C. P. MARTIN
<i>Associate Professors</i>	S. M. BANFILL J. LANGMAN
<i>Assistant Professor</i>	Y. CLERMONT
<i>Research Associate, Demonstrator</i>	H. ISLER
<i>Lecturers</i>	E. W. WORKMAN L. HELLER I. SMART
<i>Teaching Fellows</i>	N. J. NADLER J. K. SANGHI

The department offers facilities for research work leading to the degrees of Master of Science and Doctor of Philosophy in Anatomy. The emphasis may be on Microscopic or Gross Anatomy or Embryology.

For registration as a graduate student, the candidate must hold a B.Sc. or M.D. degree or any equivalent degree, as judged by the Faculty, and must have displayed general proficiency in biological studies.

For the M.Sc. and Ph.D. degrees, the students must demonstrate the ability to conduct original research and complete a series of courses with high standing. In addition to the preparation of a thesis based on original research, Ph.D. candidates will write a comprehensive examination after the end of the Second year.

When the emphasis is on Gross Anatomy or Embryology, the students will take 1 (Gross Anatomy), 2A (Neuro-Anatomy), 7 (Experimental Morphology) and 8 (Embryology). Ph.D. candidates will be required to take courses such as 4 (Advanced Neuro-Anatomy) and 6 (Histology) and to extend their knowledge of Anatomy at an advanced level, including the use of technical procedures.

When the emphasis is on Microscopic Anatomy, students will take 6 (Histology), 7 (Experimental Morphology) and 8 (Embryology). Candidates for the Ph.D. degree will be required to take courses such as 1 (Gross Anatomy), 2 (Neuro-Anatomy), General Pathology and Advanced Endocrinology.

ADVANCED AND GRADUATE COURSES

4. ADVANCED NEURO-ANATOMY

2 evenings per week, first term. *Professor F. L. McNaughton (M.N.I.)*

7. EXPERIMENTAL MORPHOLOGY

(a) A seminar on biological problems—1 hour per week.

ARCHITECTURE

(b) A practical course on the planning of biological experiments, laboratory animal management and operations, histological and histometrical techniques, tracing methods (Radioisotope measurement by Geiger counter and localization in tissue section by radioautography), microphotography, statistical methods for assessing data, etc.

One hour lecture and 2 hours laboratory per week.

Professor Leblond and Dr. Isler

DEPARTMENT OF ANIMAL HUSBANDRY

Professor

E. W. CRAMPTON

Assistant Professors

P. A. ANASTASSIADIS

M. A. MACDONALD

J. E. MOXLEY

No higher degrees are at present offered in Animal Husbandry but the following courses have been approved by the Faculty.

5. ADVANCED ANIMAL GENETICS

A critical analysis of recently published data underlying domestic animal improvement through the application of such principles and breeding methods as population genetics, inbreeding, cross breeding, heterosis, selection differentials, relationships, heritability and repeatability.

Professor Moxley

6. ADVANCED PHYSIOLOGY OF FARM ANIMALS

An integration of current research in physiology and its application to domestic animals with special reference to the energetics and manner of animal development; reproduction, milk secretion, intermediary metabolism and kidney excretion, research methods, experimental designs, and the interpretation of results including special applications of statistics in the analysis of physiological responses are considered.

Professor MacDonald

7. GRADUATE SEMINAR

Presentation and discussion of recent literature and its application to Animal Science; a study of experimental methods used and critical analyses of results and conclusions drawn from experimental work undertaken within the Department and elsewhere.

Staff

SCHOOL OF ARCHITECTURE

Professor

JOHN BLAND, *Director*

Associate Professor

HAROLD SPENCE-SALES

COMMUNITY PLANNING

An interdepartmental Committee of the Faculty of Graduate Studies and Research offers a programme of graduate training for those wishing to

GRADUATE STUDIES

specialize in Community Planning. The Committee represents the Departments of Architecture, Economics, Political Science, Geography, Law, Social Work and Sociology. Candidates are required to meet the requirements for the Master's Degree of the departments in which they are registered. In addition candidates are required to attend a Graduate Seminar, Planning Workshop, and other courses that are recommended by the Committee according to the candidates' particular needs.

A number of Fellowships in Community Planning valued at \$1,200 are usually offered every year by the Central Mortgage and Housing Corporation, Ottawa, from which particulars can be obtained.

Chairman of the Committee on Physical Planning
Professor H. Spence-Sales

1. SEMINAR IN COMMUNITY PLANNING
2 hours per week. *Professor Spence-Sales*
2. PLANNING WORKSHOP
2 hours tutorial and 8 hours problems. *Professor Spence-Sales*

COURSES FOR THE MASTER'S DEGREE IN ARCHITECTURE

1. ARCHITECTURAL DESIGN
2 hours tutorial and 18 hours problems and report per week.
Professor Bland
2. HOUSING.
2 hours tutorial and 18 hours problems and reports. *Professor Bland*
3. Candidates will be required to attend the Seminar in Community Planning and one other course bearing upon their theses.

DEPARTMENT OF BACTERIOLOGY AND IMMUNOLOGY

<i>Professor</i>	R. W. REED, <i>Chairman</i>
<i>Associate Professors</i>	G. G. KALZ J. W. STEVENSON
<i>Assistant Professors</i>	FRITZ BLANK C. A. BUTAS A. M. MASSON B. H. MATHESON S. I. VAS
<i>Lecturers</i>	S. JUHASZ L. KAPICA H. D. KING E. MANKIEWICZ O. MORGANTE

BACTERIOLOGY AND IMMUNOLOGY

S. NOMMIK
F. H. PRISSICK
R. SILOV
E. L. MEDZON

Teaching Fellow

GENERAL QUALIFICATIONS FOR ADMISSION

A B.Sc. degree with at least second class Honours in Bacteriology and Immunology, or the degree of M.D.,C.M. with high standing in Bacteriology, Immunology, and Pathology, from McGill University, is required. The equivalent from elsewhere is recognized but this must be supported by confidential letters of recommendation from professors familiar with the candidate's work.

Candidates should forward their applications to the Dean before May 30th. Successful applicants will be notified before June 30th.

REQUIREMENTS FOR THE DEGREE OF MASTER OF SCIENCE

Candidates who have satisfactorily completed the Honours course in Bacteriology as undergraduates may present themselves for examination for the M.Sc. degree at the end of one year's graduate work in the Department. Others may be required to spend two years in the Faculty of Graduate Studies and Research, the first of which will be taking a Qualifying Course comprising the Honours undergraduate Courses 42, 43a and 44 and such other courses as the Department approves. Candidates taking the Qualifying Course must reach a satisfactory standard in the examination at the end of the year to be permitted to proceed to the second year work. In cases where good and sufficient reason is shown, in terms of equivalent work, the Department may exempt a candidate from the Qualifying Year. Exemption from a Qualifying Year may be gained by attaining second class marks in an Entrance Examination equivalent to the Examination for Honours in Course 42 and 43a. Candidates are required to present one topic for a Seminar and to attend Course 51 and with due approval may attend other courses in the University Departments. The candidate is required to pass a general examination in Bacteriology and Immunology, including subjects dealt with in Course 51, and may be required to pass examinations in courses prescribed by the Department. These examinations together with a thesis on a research problem will determine the award of the Degree in accordance with regulations.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Candidates for the Ph.D. degree are required to have obtained a satisfactory standing in their work for the M.Sc. degree (McGill).

Candidates are required each year to present one topic for a Seminar and attend Course 51 and may be required to attend cognate courses in

GRADUATE STUDIES

other Departments. Candidates are required to pass a general examination in Bacteriology and Immunology, but will be judged principally on the ability they display in research.

Candidates will be occupied mainly in original research and the preparation of a thesis in accordance with Faculty regulations.

ADVANCED UNDERGRADUATE COURSES

42. ADVANCED MICROBIOLOGY (one and a half courses). A systematic study of bacteria, viruses and medically important fungi. This class is limited in size and priority is given to honours students in the biological sciences. Both terms: 3 lectures, 2 three hour laboratory classes.

Prerequisites: Bacteriology 31, Biochemistry 31.

Textbook: Topley & Wilson, Principles of Bacteriology and Immunology, 4th Edition (Arnold) 1956.

- 43a. IMMUNOLOGY (half course). A study of the fundamental aspects of antigen-antibody reactions and their practical applications.

First term: One lecture, 2 three hour laboratory classes.

Prerequisites: as for course No. 42.

Textbook: Carpenter, Immunology and Serology (Saunders), 1956.

44. BACTERIOLOGY SEMINAR (full course). Students are required to prepare and present two reviews on selected topics and must attend all seminars. The course is offered only to honours students in Bacteriology.

Prerequisites: as for course No. 42.

GRADUATE COURSES

51. GRADUATE SEMINAR

Lectures and discussions once a week. All graduate students are required to participate.

SPECIAL FACILITIES

The courses given by the Department in the Faculty of Arts and Science and the Faculty of Medicine are available to candidates for the M.Sc. and Ph.D. degrees

The practice of the Clinical Bacteriology services to the Hospitals is available to candidates as a means of instruction and a source of material for research and study.

DEPARTMENT OF BIOCHEMISTRY

*Professors*K. A. C. ELLIOTT (*Chairman*)

D. L. THOMSON

J. H. QUASTEL

Associate Professors

O. F. DENSTEDT

M. SAFFRAN

Assistant Professors

E. H. CREASER

E. A. HOSEIN

D. RUBINSTEIN

P. G. SCHOLEFIELD

Students who have satisfactorily completed the Honours course in Biochemistry and who have been accepted as research students by a research director approved by the Department may register for the M.Sc. or Ph.D. degree. Students who have not obtained a suitable Honours degree or its equivalent will be required to take a qualifying year or otherwise make up for deficiencies. Candidates for either degree will be judged principally by the ability they display in research but they must attend graduate courses listed below and pass examinations in them. Candidates may be required to take undergraduate courses in Biochemistry or cognate subjects. Research work will be carried on within the Department, where the main projects at present deal with blood chemistry, with the chemistry and metabolism of hormones and with the chemistry of brain and muscle, or in the McGill-Montreal General Hospital Research Institute on enzymology, cancer and brain, or at the Montreal Neurological Institute Laboratory of Experimental Neurochemistry, or in the Biochemical Laboratories of the Allan Memorial Institute of Psychiatry or in other laboratories approved by the Department.

ADVANCED UNDERGRADUATE COURSES

43. ADVANCED BIOLOGICAL CHEMISTRY

3 hours.

Professor Denstedt

44. PHYSICAL ASPECTS OF BIOCHEMISTRY

3 hours.

Professor Thomson

45. METABOLISM

2 hours, first term.

3 hours, second term.

Professor Quastel and Staff

GRADUATE COURSES

51-52. SPECIALTIES AND RECENT ADVANCES IN BIOCHEMISTRY

One hour.

Professor Saffran and Staff

GRADUATE STUDIES

In this course groups of lectures will outline special fields of Biochemistry in which advances have been rapid. The content of the course will change from year to year.

M.Sc. and First year Ph.D. students are required to attend this course for one year and to pass an examination. Ph.D. students are required to attend and pass examinations in two successive years.

- 62 and 63. ADVANCED ENDOCRINOLOGY (To be registered for as Investigative Medicine 62 and 63).

These alternating courses are given jointly with the Departments of Experimental and Investigative Medicine and Anatomy in cooperation with the Institute of Experimental Medicine and Surgery of the University of Montreal.

Course 62 deals with steroid hormones. Course 63 with nitrogen-containing hormones. The former only will be given in 1960-61.

To be taken by students whose research directors advise them to do so.

71. FIRST GRADUATE SEMINAR

This will consist of two or three symposia of 25 minute presentations by M.Sc. or First year Ph.D. students on subjects not directly connected with their research work.

72. SECOND GRADUATE SEMINAR

This will consist of a series of 45 minute presentations by Third or Fourth year Ph.D. students on their own work or on subjects directly related to their work.

All M.Sc. and First and Second year Ph.D. students are required to attend Courses 71 and 72. All M.Sc. and Ph.D. students are required to make one presentation in Course 71. All Ph.D. students are required to make one presentation in Course 72.

DEPARTMENT OF BOTANY

Professors

MURIEL V. ROSCOE, *Chairman*
R. D. GIBBS

Associate Professors

C. M. WILSON
G. H. N. TOWERS

Assistant Professors

W. G. BOLL
P. F. MAYCOCK

Candidates who have satisfactorily completed the Honours course in Botany or its equivalent, if accepted, will enter immediately upon a programme of courses and research leading to either the M.Sc. or Ph.D.

degree. (The Honours course in Botany consists of a minimum of six courses in advance of the elementary course, chosen from: Morphology, Taxonomy, Anatomy, Plant Physiology, Mycology, Plant Biochemistry, Genetics, Cytology, Economic Botany, Microtechnique and Morphogenesis with at least one course in Zoology and appropriate courses in Chemistry and Physics.)

Candidates who do not quite meet the requirements as set forth in the Honours Course may be accepted as full graduate students, but may be required to spend not less than two years on work for the M.Sc. degree.

Students with insufficient background to carry graduate work in Botany may enrol for a Qualifying Year and take such work as is prescribed up to a maximum of five full courses.

For the M.Sc. degree, a student must take a minimum of two full courses (or the equivalent in half courses) from those offered below. On the advice of the Director of Research one cognate course may be substituted. He will also carry out his research project and write a thesis. It is possible for well-qualified candidates to present themselves for the M.Sc. degree at the end of one year of graduate work.

For the Ph.D. degree, a student will take such additional courses as are required to round out his general background as well as those which relate to his particular line of specialization. In any case, he must take at least one course not included in his M.Sc. programme. Ph.D. candidates must pass a general examination in Botany and also demonstrate ability in research and preparation of a thesis.

The Department specializes in work bearing on comparative anatomy of vascular plants, morphology of reproduction, embryo-sac studies, carbohydrate and nitrogen metabolism, respiration and photosynthesis, comparative chemistry of plants as related to taxonomy, tree physiology, cytology, life histories of the lower fungi and morphogenesis.

Adequate laboratory and library facilities are available for research

COURSES FOR HIGHER DEGREES

33. PLANT BIOCHEMISTRY

2 lectures; 2 laboratory periods.

Professors Gibbs and Towers

(Not given in 1960-61; given in 1961-62.)

41. MICROTECHNIQUE

1 lecture; two laboratory periods.

Professor Roscoe

45. PLANT MORPHOGENESIS (Full course). A survey of the physiological, biochemical, and genetic approaches to the experimental study of plant

GRADUATE STUDIES

morphogenesis, including growth correlation, the function of plant hormones and the environmental control of plant development and morphology.

First term: 2 hours lectures and 3 hours laboratory.

Second term: 2 hours lectures and weekly seminar.

Prerequisite: Botany 100 or 11b, 31, and Genetics 21.

(Given in 1960-61; not given in 1961-62.)

Professor Boll

61. ADVANCED PLANT PHYSIOLOGY

2 lectures with laboratory.

Professors Towers and Boll

63. PLANT ECOLOGY

Lecture, conference, field, and laboratory work.

Professor Maycock

64. ANATOMY OF REPRODUCTION (Half course)

Lecture, conference, and laboratory work.

Professor Roscoe

65. ADVANCED MYCOLOGY

Seminar, 2 hours.

Professor Wilson

66. SPECIAL TOPICS (Full course or half course)

Prescribed reading, conference, and practical work on selected topics within Anatomy, Physiology, Taxonomy, Phytogeography, Ecology, Mycology, Plant Biochemistry, etc.

The Staff

SEMINAR ON THE PLEISTOCENE AND ARCTIC, *see under Geography.*

DEPARTMENT OF CHEMICAL ENGINEERING

Professor

J. B. PHILLIPS, *Chairman*

Assistant Professors

W. J. M. DOUGLAS

K. A. SHELSTAD

Special Lecturer

WILLIAM GAUVIN

61. ADVANCED CHEMICAL ENGINEERING

2 hours.

Dr. Gauvin

Selected topics from flow of fluids, heat transfer and evaporation, with emphasis on transient systems; thermodynamics and operations based on the equilibrium concept, such as multiple-component rectification. Assignment of advanced problems. This course is open only to students who have had previous training in unit operations.

CHEMICAL ENGINEERING

62. FLUID MECHANICS AND PARTICLE DYNAMICS

2 hours.

Dr. Gawin

Development of basic differential equations of fluid motion and their application to potential flow, and to laminar and turbulent flow in closed circuits and past immersed bodies. The Boundary Layer Theory and the concepts of turbulence. Dynamics of small particles and statistical treatment of particulate systems. Application of the fundamental principles to the problem of heat, mass, and momentum transfer in solid-gas systems, such as pneumatic conveying, spray-drying, and flash-drying.

63. CHEMICAL ENGINEERING RATE OPERATIONS

2 hours.

Professor Douglas

Advanced treatment of a number of Chemical Engineering operations which are analysed by means of rate equations. Topics are chosen principally from the areas of chemical reaction rates, mass transfer including diffusional and bulk transport rates, and heat transfer.

64. HEAT AND MASS TRANSFER IN DISPERSED SYSTEMS

2 hours.

Professor Shelstad

Heat transfer in packed beds and in fluidized beds of solid particles. The use of adsorbents and of packed towers in separating mixtures of gases and mixtures of liquids.

REQUIREMENTS FOR MASTER'S DEGREE

The following are required for the Master of Engineering degree:

1. At least two graduate courses in Chemical Engineering.
2. At least one other advanced course, usually in Chemistry, Physics or Mathematics.
3. Chemical Engineering Colloquium.
4. Thesis on a Chemical Engineering subject. The experimental work would be in heat transfer, distillation, absorption, extraction, drying, and applied physico-chemical problems.

REQUIREMENTS FOR THE PH.D. DEGREE

Students having the approval of the Dean of Graduate Studies and Research may proceed to the degree of Doctor of Philosophy in Chemical Engineering.

All the general regulations of the Faculty of Graduate Studies and Research for the Ph.D. degree will apply.

In addition to the courses required for the Master's degree, a student will take such graduate courses in Chemical Engineering and advanced cognate courses as may be required by the department.

GRADUATE STUDIES

DEPARTMENT OF CHEMISTRY

Professors CARL A. WINKLER, *Chairman*
C. B. PURVES
L. YAFFE

Associate Professors R. K. HOLCOMB
J. H. MENNIE
R. V. V. NICHOLLS
A. S. ROSS
H. I. SCHIFF
A. TAURINS

Assistant Professors G. C. B. CAVE
J. T. EDWARD
G. E. JUST
M. ONYSZCHUK
R. F. ROBERTSON
A. SEHON

Research Associates D. A. I. GORING
O. MAASS
R. ST. J. MANLEY
S. G. MASON
W. A. MUELLER
A. A. ROBERTSON
T. TIMELL

Adequate laboratory and library facilities are available for the courses listed below and for research. The Pulp and Paper Research Institute affords ample facilities for research on the structure and properties of carbohydrates, cellulose, lignin, wood, and pulp and paper.

Any of the following courses may be required of a student who is admitted to the Graduate School if the equivalent has not been taken previously.

31. ATOMIC STRUCTURE AND VALENCE THEORIES

2 hours.

Professors Onyszchuk and Yaffe

34L. PHYSICAL CHEMISTRY LABORATORY (INTERMEDIATE). Simple physico-chemical methods of investigating kinetic and thermodynamic properties of gases, liquids, and solutions.

3 hours laboratory.

Professor Ross

Text: Daniels, Mathews, Williams, Bender and Alberty, *Experimental Physical Chemistry*, 5th ed. (McGraw-Hill).

References: Livingston, Physico Chemical Experiments (Macmillan); Palmer, Experimental Physical Chemistry (Cambridge).

35. **CHEMICAL THERMODYNAMICS AND ELECTROCHEMISTRY.** First and second laws, entropy, free energy, activity and fugacity in ideal and real solutions; Solutions of strong electrolytes. Electrode potentials, electrochemical cells, electrolytic conduction and electrolysis, specific and equivalent conduction, mobility and transport numbers, overvoltage and polarization.

3 hours.

Professor Robertson

Texts: Klotz, Chemical Thermodynamics (Prentice-Hall); Lewis and Randall, Thermodynamics (McGraw-Hill); Glasstone, Introduction to Electrochemistry (Van Nostrand).

40. **CHEMISTRY AND TECHNOLOGY OF HIGH POLYMERS.** Organic (carbon) and inorganic (silicon) polymers; nature of polymeric molecules; relationship between molecular structure and physical, chemical and mechanical properties; experimental methods for controlling and determining structure of polymers; properties of commercially available materials; methods of fabrication.

1 hour.

Professor Nicholls

41. **INORGANIC CHEMISTRY (ADVANCED).** Selected topics in modern inorganic chemistry.

2 hours.

Professors Holcomb, Onyschuk and Yaffe

- 41L. **INORGANIC CHEMISTRY LABORATORY (ADVANCED).** An introduction to modern techniques for the preparation of inorganic compounds.

3 hours laboratory, first term.

Professors Holcomb and Onyschuk

42. **ORGANIC CHEMISTRY (ADVANCED).** Selected topics in modern organic chemistry, including natural products, stereochemistry and reaction mechanisms.

2 hours.

Professor Edward

- 42L. **ORGANIC CHEMISTRY LABORATORY (ADVANCED).** An introduction to modern techniques in organic chemistry, including chromatography of various types, extraction, electrophoresis, etc.

3 hours laboratory.

Professor Taurins

Text: Linstead, Elvidge and Whalley, A Course in Modern Techniques of Organic Chemistry (Butterworth).

43. **INSTRUMENTAL METHODS OF ANALYSIS.** An introduction to modern techniques of chemical analysis, including gas chromatography, mass

GRADUATE STUDIES

spectrometry, chemical microscopy, x-ray diffraction, measurements of radioactivity, infrared and ultraviolet spectrophotometry, optical spectrography, x-ray fluorescence spectrometry, polarography, etc.

1 hour, first term.

3 hours laboratory, second term.

Professor Cave and others

44. **KINETIC THEORY AND CHEMICAL KINETICS.** Description of physical phenomena in terms of statistical distribution functions; concept of cross-section; transport phenomena; dynamics of two-particle encounters; measurement and calculation of rates of chemical reactions; energetics of reactions; theories of reaction mechanism; heterogeneous and homogeneous catalysis.

2 hours

Professor Schon

References: Moelwyn-Hughes, Physical Chemistry (Pergamon Press); Glasstone, Textbook of Physical Chemistry (Van Nostrand); Present, Kinetic Theory of Gases (McGraw-Hill); Laidler, Chemical Kinetics (McGraw-Hill); Trotman-Dickenson, Gas Kinetics (Butterworth).

- 44L. **PHYSICAL CHEMISTRY LABORATORY (ADVANCED).** More advanced physico-chemical methods applied to equilibria, reaction kinetics, colloids, and electrochemistry.

6 hours laboratory.

Professor Ross

Text: Daniels, Mathews, Williams, Bender and Alberty, Experimental Physical Chemistry, 5th ed. (McGraw-Hill).

References: Weissberger, Technique of Organic Chemistry, Vol. I, Physical Methods, Vol. IV, Distillation, Vol. VIII, Investigation of Rates and Mechanisms of Reactions (Interscience); Reilly and Rae, Physico-Chemical Methods (Van Nostrand).

45. **CHEMICAL THERMODYNAMICS (ADVANCED)**

2 hours.

Professor Schiff

References: Sillén, Lange and Gabrielson, Problems in Physical Chemistry (Prentice-Hall); Lewis and Randall, Thermodynamics (McGraw-Hill); Klotz, Chemical Thermodynamics (Prentice-Hall); Paul, Principles of Chemical Thermodynamics (McGraw-Hill); Dole, Introduction to Statistical Thermodynamics (Prentice-Hall).

46. **COLLOID CHEMISTRY.** Descriptive, thermodynamic and kinetic treatment of properties of surfaces, sols, emulsions, gels.

1 hour.

Professor Robertson

References: Weiser, Colloid Chemistry, 2nd ed. (Wiley); Adam, Physics and Chemistry of Surfaces, 3rd ed. (Oxford); Brunauer, Adsorp-

tion of Gases and Vapors, Vol. I (Princeton); Alexander and Johnson, Colloid Science (Oxford); Harkins, Physical Chemistry of Surface Films (Reinhold); Jirgensons and Straumanis, Short Textbook of Colloid Chemistry; Gregg, The Surface Chemistry of Solids (Reinhold).

GRADUATE COURSES

100. SPECIAL TOPICS. Critical and original essays are required on various subjects of current interest in chemistry.

2 hours.

Staff

101. INFRARED SPECTROPHOTOMETRY. (For graduate students in Chemistry only) Theory of infrared spectra, their interpretation and application to the determination of molecular structure. Laboratory exercises, including preparation of samples and instrumentation.

1 hour.

Professor Taurins

200. THEORETICAL ORGANIC CHEMISTRY. Interpretation of molecular structure, and reactivity of organic compounds in terms of electronic structure, resonance and molecular orbitals. Mechanisms of organic reactions, ionic and free radical, including substitution, addition, elimination, rearrangement and polymerization. Fundamental principles of ultra-violet, visible and infrared spectrophotometry.

2 hours.

Professor Taurins

201. HETEROCYCLIC COMPOUNDS. A selection of advanced topics on the structure, reactivity and methods of synthesis of heterocyclic compounds containing oxygen, nitrogen and sulphur as heteroatoms.

1 hour.

Professor Taurins

202. NATURAL PRODUCTS. A study of recent investigations, mainly in the field of alkaloids and terpenes, to illustrate modern methods of determining structure, and the application of stereoelectronic theory to complex molecules.

1 hour.

Professor Edward

203. CELLULOSE, LIGNIN, AND RELATED COMPOUNDS. The chemistry of some typical polysaccharides, including plant gums, pectins and hemicelluloses, is outlined; wood lignin, the linear structure, the polymolecularity, and the supermolecular structure of cellulose are discussed.

2 hours.

Professor Purves and Dr. Timell

300. RADIOCHEMISTRY. Nuclear properties; semi-empirical mass formula; isobaric behaviour; modes of radioactive decay; nuclear reactions; compound nucleus; cross-sections; high energy reactions; instruments

GRADUATE STUDIES

and techniques used in measurement and study of radiations; methods of isolation, concentration and identification of radioactive nuclides; chemistry of low concentrations; some applications of radioactive tracers.

1 hour.

Professor Yaffe

301. SELECTED TOPICS IN RADIOCHEMISTRY. This course is designed to be of a more general nature than Chemistry 300. A number of lectures will be given dealing with fundamentals of radio-chemistry, radio-tracer techniques and applications. The remainder of the lectures will be devoted to special topics including isotope effects, exchange reactions, C^{14} dating technique, synthesis of the new elements, etc.

1 hour.

Professor Yaffe

400. SELECTED TOPICS IN POLYMER AND COLLOID SCIENCE. The topics include the following: Solution properties of macromolecules; kinetics of polymerization; determination of molecular weight and shape; phase transitions in polymers; X-ray diffraction; monomolecular layers; stability of colloids; electrical double layers; polyelectrolytes; proteins, etc.

2 hours.

Dr. Mason and Associates

401. CHEMICAL KINETICS. Advanced treatment of selected topics in chemical kinetics and photochemistry.

2 hours.

Professor Schon

402. STATISTICAL THERMODYNAMICS. Introduction to quantum mechanics, Schrodinger equation, solution of wave equation for simple models; Bose-Einstein and Maxwell-Boltzmann statistics; partition function for the models; calculation of thermodynamic quantities. Application to simple molecules, using spectroscopic data.

2 hours.

Professor Schiff

500. COLLOQUIUM—ORGANIC

Each student is required to participate in Research Colloquia which are held bi-monthly. These involve the presentation and discussion of papers dealing either with the student's own research or with recent research publications.

Staff

501. COLLOQUIUM—INORGANIC AND PHYSICAL

As above.

Staff

APPLICATIONS FOR ADMISSION

If possible a candidate should specify the field of research in which he is interested

Candidates accepted for graduate work may begin research on June 1st.

Those students in the Graduate School who are awarded demonstratorships are required to devote not more than 12 hours to instruction in undergraduate laboratories per week during the academic session.

REQUIREMENTS FOR THE MASTER OF SCIENCE AND DOCTOR OF PHILOSOPHY DEGREES

I. Students must take such examinations as may be required in (a) assigned courses given in the Department of Chemistry, (b) assigned cognate courses given in other departments, (c) assigned foreign languages.

II. Students must complete successfully a research project and submit an acceptable thesis thereon.

Research in this Department may be conducted in (a) Analytical Chemistry, (b) Inorganic Chemistry, (c) Radiochemistry, (d) Physical Chemistry, (e) Colloid Chemistry, (f) Organic Chemistry, (g) Cellulose Chemistry, (h) Immuno-chemistry.

III. Students must satisfy the examiners in an oral examination on the thesis and related subjects (required only of candidates for the Ph.D. degree).

FINANCIAL ASSISTANCE

It is usually possible to provide financial assistance during the four summer months. Financial assistance during the academic session is generally available in the form of demonstratorships or scholarships and occasionally by payment from research funds.

EXAMINATIONS IN CHEMISTRY

1. Examinations are normally taken by the candidate in May. In special circumstances, and with the permission of the Department, they may be taken in September.

2. A candidate for the Ph.D. degree shall pass all examinations, other than those in certain special courses, before the final year, except in special circumstances and then only with the approval of the Department.

GRADUATE STUDIES

3. A candidate who may wish to take examinations in any one or more subjects in September of his entrance year is advised to consult the Chairman of the Department as soon as possible.

4. Students who register for an M.Sc. degree at McGill may, with the approval of the Department and the Dean of the Graduate Faculty, continue to the Ph.D. degree without submitting a Master's thesis.

DEPARTMENT OF CIVIL ENGINEERING AND APPLIED MECHANICS

<i>Professors</i>	CARLETON CRAIG, <i>Chairman</i> J. L. DESTEIN
<i>Associate Professor</i>	ANDREJS PAKALNINS
<i>Assistant Professor</i>	RAYMOND YONG

Adequate laboratory and library facilities are available for the courses listed below. Facilities for research are available in the following fields:

- (a) reinforced concrete structures
- (b) strength and stability of steel and light alloy structures
- (c) soil mechanics
- (d) hydraulics

COURSES FOR THE MASTER'S DEGREE

60. STATICALLY INDETERMINATE STRUCTURES

First term, 2 hours tutorial, and 6 hours computation and reports.

Professor Craig

61. TECHNICAL ELASTICITY

First term, 2 hours tutorial, and 6 hours computation and reports.

Professor Craig

62. STRUCTURAL ANALYSIS

First term, 2 hours tutorial, and 6 hours computation and reports.

Professor deStein

63. HIGHWAY ENGINEERING

4 hours tutorial, and 12 hours computation and reports.

Professor Pakalns

64. HYDRAULIC ENGINEERING

First term, 2 hours tutorial, and 6 hours computation and reports.

Professor Craig

65. SOIL ENGINEERING

First term, 2 hours tutorial and 6 hours computation and reports.

Professor Yong

66. MUNICIPAL ENGINEERING

Advanced course of design and economics of Public Water Supply, Sewerage, Sewage and Wastes Treatment.

First term, 4 hours tutorial, and 6 hours computation and reports;
second term, 2 hours tutorial. *Professor Pakalnis*

Candidates for the M.Eng. degree will be expected to take at least two courses in addition to thesis work.

DEPARTMENT OF CLASSICS

Professor (Post-retirement) C. H. CARRUTHERS

Associate Professors P. F. McCULLAGH, *Chairman*
E. M. COUNSELL

Assistant Professor C. D. GORDON

Lecturer G. R. VALLILLEE

COURSES FOR THE DEGREE OF MASTER OF ARTS

CLASSICS 60. STATE AND INDIVIDUAL: POLITICAL AND ETHICAL CONCEPTS OF THE GREEKS AND ROMANS

An intensive study of selected source material (Greek and Latin), illustrating various stages of ethical and political thought in the ancient world.

2 hours colloquia. *Professor McCullagh*

GREEK 62. READINGS IN THE GREEK HISTORIANS

3 hours. *Professor Gordon*

GREEK 63. HOMER, ODYSSEY

3 hours. *Mr. Vallillee*

LATIN 70. LUCRETIVS

Lucretius' status as poet, philosopher and scientist.

3 hours. *Professor Carruthers*

LATIN 73. LATIN OF THE SILVER AGE

2 hours colloquia. *Professor Counsell*

GRADUATE STUDIES

LATIN 74. CICERO THE HUMANIST

An examination of selected ethical, political and religious writings of Cicero.

2 hours colloquia.

Professor McCullagh

LATIN 75. ROMAN HISTORY

A study of the original Latin sources, literary and epigraphic, dealing with selected problems of late republican and early imperial history.

2 hours colloquia.

Professor Gordon

LATIN 76. LATIN PROSE COMPOSITION

1 hour.

Professor Counsell

GREEK 77. GREEK PROSE COMPOSITION

1 hour.

Professor Counsell

80. INTRODUCTION TO THE STUDY OF LANGUAGE (LINGUISTICS 221)

3 hours.

Professor Carruthers

DEPARTMENT OF DIVINITY

Professors

S. B. FROST, *Dean*

E. G. JAY

G. JOHNSTON

W. C. SMITH

H. H. WALSH

Associate Professor

J. C. McLELLAND

Lecturers

C. J. ADAMS

J. A. BOORMAN

D. D. EVANS

Requirements for admission to the course leading to the degree of *Sanctae Theologiae Magister* (S.T.M.) are stated on page 2626. The usual rules and regulations of the Faculty will apply. In special instances, students may be accepted for courses leading to the degree of Ph.D. For regulations see p. 2627 and Divinity Announcement. In the field of Comparative Religion, the M.A. degree is also offered, for candidates who do not have the B.D. or its equivalent.

DIVINITY

The staff offers each session a selection from the following list of courses, and is prepared to guide students in thesis research on approved topics, within any of the following fields: Old Testament language and literature; New Testament language and literature; Systematic Theology, including Christian Ethics; Philosophy and Psychology of Religion; Church History; and Comparative Religion. To each approved student appropriate courses will be assigned, on occasion including courses offered by other Departments such as Philosophy, History, Classics, or Islamic Studies. Graduate students in these Departments may be permitted or required to take courses currently offered in Divinity.

Adequate library facilities are available in Divinity Hall and elsewhere for the courses listed, and for research.

COURSES IN DIVINITY

61. THE DOCTRINE OF THE TRINITY
2 hours. *Professor Jay*
65. THE NATURE AND FUNCTION OF THE CHURCH
2 hours. *Professor Jay*
67. THE EMERGENCE OF DOCTRINE IN THE APOSTOLIC FATHERS *Professor Jay*
77. THE DOCTRINE OF THE HOLY SPIRIT IN THE NEW TESTAMENT
Professor Johnston
78. THE PASTORAL EPISTLES
Professor Johnston
86. SOCIAL ETHICS AND CONTEMPORARY THOUGHT
Professor McLelland and Dr. Boorman
90. INTRODUCTION TO CANADIAN CHURCH HISTORY. The origins of the various churches in Canada.
2 hours. *Professor Walsh*
91. PROBLEMS OF CHURCH AND STATE. A study of the relations of Church and State during the revolutionary period in France.
2 hours. *Professor Walsh*
92. THE HISTORY OF THE DOCTRINE OF THE ATONEMENT
2 hours. *Professor Thomson*
93. THE SOCIAL TEACHINGS OF THE CHRISTIAN CHURCHES SINCE 1900
2 hours. *Professor Walsh*
94. SELECTED PSALMS (Hebrew and Greek Texts and Exegesis).
2 hours. *Professor Frost*

GRADUATE STUDIES

95. THE HISTORY OF THE HOUSE OF ZADOK
2 hours. *Professor Frost*
96. THE QUMRAN COMMUNITY
2 hours. *Professor Frost*
97. SYNCRETISM IN THE OLD TESTAMENT *Professor Frost*
98. TRADITION AND TRADITIONS IN CANADIAN CHURCH HISTORY
2 hours. *Professor Walsh*

COURSES IN COMPARATIVE RELIGION

101. THE CONCEPT OF "FAITH" IN ISLAM (The same course as Islamics 11, see page 2705).

103. PROBLEMS OF RELIGIOUS DIVERSITY. The multi-religiousness of mankind, considered as an intellectual, a moral, and a theological problem. A study of major endeavours to make coherent sense of the diverse phenomena: by the secular academic tradition (sociological theories, psychological theories, rationalist theories, etc.) and from the viewpoint of each of the major world faiths. Contemporary developments, in theory and in practice.

Note: This seminar will not be held unless members of at least two different religions participate.

2 hours.

Professor Smith and Dr. Adams

105. CHRISTIANITY AND OTHER RELIGIONS. An historical survey of the relations of the Christian church with other religious communities and religious systems, in practice and in theory. Systematic study of the main types of Christian attitude to outsiders taken over the centuries. A more intensive critical study of recent Christian writing on this matter, and the emergence of new movements. The present-day search for an adequate theological position. The relation between the theological and the moral orientation.

2 hours.

Professor Smith

(*Not given in 1960-61.*)

The attention of students in Comparative Religion is drawn to further courses in Islamics offered by the Institute of Islamic Studies (see page 2703).

107. DEVELOPMENT OF THE HINDU RELIGIOUS TRADITION

2 hours.

Dr. Adams

(*Not given in 1960-61.*)

ECONOMICS AND POLITICAL SCIENCE

DEPARTMENT OF ECONOMICS AND POLITICAL SCIENCE

Professors

J. R. MALLORY, *Chairman*

E. F. BEACH

G. E. G. CATLIN

F. C. JAMES

D. L. MACFARLANE

H. D. WOODS

D. McC. WRIGHT

Associate Professors

IRVING BRECHER

MICHAEL BRECHER

K. B. CALLARD

J. T. CULLITON

C. B. HAVER

B. E. SUPPLE

J. C. WELDON

Assistant Professors

D. E. ARMSTRONG

A. ASIMAKOPOULOS

S. J. FRANKEL

M. K. OLIVER

SYLVIA OSTRY

GRADUATE SEMINARS

A graduate seminar will normally meet for two hours each week throughout one term. Reading and preparation require substantial additional time. At the graduate level the student is expected to concentrate wholly on either economics or political science.

Seminars in Economics

501. ECONOMIC HISTORY. The methodology of economic history and the applicability of economic theory. The historical development of major economic systems. Comparative problems in entrepreneurial change and in economic growth.

Second term.

Professor Supple

511. THEORY OF THE FIRM I. A specialized study of the theory of the process of the firm.

First term.

Professor Beach

512. THEORY OF THE FIRM II. A study of the theory of the firm as adapting itself to, and cushioning itself from, often unforeseeable economic and technical change, cyclical movements, and social disturbance; also as initiating innovation.

Prerequisite: Economics 511.

Professor Wright

GRADUATE STUDIES

513. WELFARE ECONOMICS. This course is intended for graduate students who have had a course in advanced theory and who, in particular, are well acquainted with modern demand theory. It is intended as a supplement to descriptive and analytical economics.

(Not given in 1960-61.)

521. ADVANCED MONETARY THEORY

Second term.

Professor Asimakopulos

522. MACRO-ECONOMICS. Determinants of the general levels of income, employment, prices, production; economic fluctuations; economic trends; under-employment equilibrium and secular stagnation; conditions of economic progress; fiscal and monetary policies for maintaining full employment and preventing inflation.

First term.

Professor Wright

523. THEORY OF ECONOMIC CHANGE. Methodological critique of modern, Keynesian, and classical theories of economic change and development, restatement of problems for analysis, analytical study of models involving population and technological changes in the economy as a whole and the cultural conditions accompanying them.

First term.

Professor Wright

524. INTERNATIONAL ECONOMICS. Selected problems in the theory of international trade and foreign exchange.

Second term.

Professor Irving Brecher

531. CANADA-UNITED STATES ECONOMIC RELATIONS. A study of key issues affecting economic relations between Canada and the United States. Among the topics analyzed will be foreign investment, the balance of payments, business fluctuations, and commercial and agricultural policies.

Second term.

Professor Irving Brecher

532. TRANSPORTATION. A study of the economics of transportation; its relation to the general body of economic theory; government regulation with emphasis on factors that fashion it.

Both terms.

Professor Culliton

541. LABOUR ECONOMICS. Special problems of labour and management.

Second term.

Professor Woods

561. ECONOMETRICS. The application of mathematics and statistics to the study of economics. An acquaintance with calculus and elementary statistics is assumed.

Professor Weldon

(Not given in 1960-61.)

ECONOMICS AND POLITICAL SCIENCE

562. MATHEMATICAL ECONOMICS. Selected problems in economic theory treated mathematically. An acquaintance with elementary matrix theory is desirable but not essential.

Second term.

Professor Weldon

581. AGRICULTURAL ECONOMICS. The nature of agricultural production; the economics of size in agriculture; intensity of production; the pricing mechanism for farm products; agriculture in world commerce, FAO, ITO; the role of agriculture in the Canadian economy; economic problems confronting the Canadian farm industry.

First term.

Professor MacFarlane

582. AGRICULTURAL POLICY. The nature and objectives of policy; use of economic analysis as a guide to formation and appraisal of agricultural policy; fallacies; the time dimension; reconciliation of conflicts; problems confronting agriculture—instability, inter-industry and interregional inequality, poverty and inefficiency; policies for achieving greater economic welfare and progress.

Second term.

Professor Haver

Seminars in Political Science

515. POLITICAL THEORY. A seminar in contemporary political science, with reference also to political philosophy and to the psychological bases and sociological affiliations of politics.

Second term.

Professor Catlin

Prerequisite: Political Science 311 or its equivalent.

525. POLITICAL INSTITUTIONS. A study of the problem of governments and politics in a selected area.

Professor Mallory

544. INTERNATIONAL RELATIONS. A seminar on selected problems of international politics and organization.

Second term.

Professor Michael Brecher

545. PUBLIC ADMINISTRATION. A problem of contemporary administrative interest will be selected for analysis. The exact topic will be announced later.

Second term.

Professor Callard

546. REGIONAL PLANNING (ARCHITECTURE B). A seminar on the problems of regional planning, not for course credit.

Both terms.

The Inter-Departmental Committee on Regional Planning

GRADUATE STUDIES

THE STAFF SEMINAR

The Staff Seminar of the Department of Economics and Political Science meets once each week during term to discuss papers presented by members of the staff and, occasionally, by visitors to the university. All graduate students are entitled to attend. The purpose of the Seminar is to enable staff and students to discuss informally topics of current research interest in the belief that such regular discussion will stimulate the research of staff and students alike.

REQUIREMENTS FOR THE MASTER'S DEGREE

500. GENERAL ORAL EXAMINATION FOR THE M.A. IN ECONOMICS OR POLITICAL SCIENCE (See below).

Students who have obtained at least second class standing in the honours B.A. course in Economics and Political Science in McGill University, or who have completed at least three full courses in Agricultural Economics at Macdonald College and at least two full courses in Economics and Political Science at McGill, with at least second class standing, are eligible for admission to the M.A. course. Students who hold the B.Com. from McGill with at least second class standing over-all and in all the required courses in Economics are eligible for admission to the M.A. course. Students with equivalent qualifications from other approved institutions are also admissible. Since graduate work is normally undertaken in only one of the two subjects within the Department, i.e. Economics or Political Science, applicants may be admitted who have acceptable qualifications in either Economics or Political Science.

Candidates for the Master's degree must pass the examinations set on the work of two of the Seminars listed above. In addition all candidates are required to prepare themselves, under the direction of a member of the Department, for a Comprehensive Oral Examination in three fields of study, one of which must be Political or Economic Theory. The results of these examinations will determine not only the candidate's qualifications for the Master's degree, but also if he may continue for doctoral study. A pass for the Master's degree does not necessarily imply permission to proceed for the doctorate.

Preparatory work for the Comprehensive Oral Examination. In preparing for the Oral Examination candidates will follow courses of reading or lectures which their directors of research may consider necessary in each individual case.

Optional Fields for the Comprehensive Oral Examinations:

Economic Theory; Economic History; Economic Policy; Econometrics; Money and Banking; Labour Economics, International Economics;

ECONOMICS AND POLITICAL SCIENCE

Agricultural Economics; Economics of Transportation; Political Theory; Comparative Government; American Government; British Commonwealth Governments; Canadian Government; Public Administration; International Politics and Organization.

A Thesis on an approved subject is required.

REQUIREMENTS FOR THE PH.D. DEGREE

600. GENERAL ORAL EXAMINATION FOR THE PH.D. IN ECONOMICS OR POLITICAL SCIENCE (See below).

Students who have achieved high standing in the M.A. in Economics, or Political Science, or the M.Com., at McGill University, or have equivalent qualifications, may be permitted to proceed to the Ph.D. in two further years, one of which may be spent at an approved institution elsewhere. Students from institutions other than McGill are required, in their first year of residence, to pass the two seminars prescribed for the Master's degree. Students for the Ph.D. are required to take one additional seminar in their second year of residence at McGill, and additional seminars may be required of particular students in that year if recommended by the student's director of studies. In the case of additional seminars beyond the two required for the M.A., the Department may, in the case of students permitted to spend one or more years at another university, recognize seminars taken there in fulfilment of this requirement.

All candidates for the Ph.D. must pass a comprehensive oral examination in three fields of study, one of which must be Political or Economic Theory. The examination must be offered from among the fields of study enumerated under *Requirements for the Master's Degree*, and is set at a higher standard than that required for the Master's degree.

All doctoral candidates must pass an examination in unseen translation from authors in two modern languages other than English. French-speaking candidates may translate into French, but in that case one of the languages from which they translate must be English. A Thesis on an approved subject is required.

McGill University is now prepared to offer instruction at the Master's level in all the usual branches of Economics and Political Science. For the Ph.D., however, McGill is prepared to accept candidates only in the following branches: Economic Theory, Economic History, Public Finance, Fiscal and Monetary Policy; Banking; International Trade; Employment Theory; Labour Economics, including wage theory and policy; Regional Economics and Economic Geography; Agricultural Economics; Political Theory; Legal Theory; Comparative Government and Comparative Legal Systems; Canadian Government and Constitution; Commonwealth Governments and Commonwealth Relations.

GRADUATE STUDIES

GRADUATE PROGRAMMES IN CO-OPERATION WITH OTHER DEPARTMENTS

The general requirements of the Department for the Master's degree, viz. the Comprehensive Oral Examination (including the required subject in political or economic theory), the two required Seminars, and the Thesis, must be met by all candidates. The two following programmes for candidates with specialized interests are offered in co-operation with other Departments in the Faculty of Graduate Studies. Programmes can also be arranged in co-operation with the Institute of Islamic Studies.

1. COMMUNITY PLANNING

An inter-departmental Committee of the Faculty of Graduate Studies offers a programme of graduate training for those wishing to specialize in Community Planning. The Committee represents the Departments of Architecture, Engineering, Geography, Sociology, and Economics and Political Science. Specialized instruction in the form of a Graduate Seminar, Courses of Instruction, and Laboratory Work is offered by qualified members of the Departments concerned. Candidates are required to meet the degree requirements of the departments in which they are registered. Students in Economics and Political Science will offer the Seminar in Community Planning (listed as Course No. 546 above) as one of the required Seminars for the degree, and will write a thesis on a topic related to Community Planning.

2. INTERNATIONAL RELATIONS

Candidates wishing to specialize in International Relations will be expected to meet the normal degree requirements of the Department, while offering International Politics and Organizations as one of the fields for the Comprehensive Examination, and writing a thesis on an approved topic in international relations. Supplementary courses of interest to students in International Relations may be found in the Department of History, Faculty of Law, and Department of Geography, and in the Institute of Islamic Studies. Students who require them may take such courses, with the consent of the department concerned. Where appropriate Graduate Seminars are offered, as in the Faculty of Law or in Islamic Studies, they may, with the consent of the department or faculty concerned and the Department of Economics and Political Science, be offered in fulfilment of the Seminars required in Economics or Political Science.

3. ISLAMIC STUDIES

Students may, with the approval of the Department and of the Institute of Islamic Studies, take certain courses offered in Islamic Studies as part of a programme emphasizing the problems of the Islamic World.

Students will be required to meet the normal degree requirements of the Department, together with appropriate courses in Islamic Studies, and write their theses on problems in some area of economics or political science relevant to Islamic studies. In certain cases a graduate seminar in Islamic Studies may be substituted for one of the seminars required to be taken in the Department. In general, the above programme may be permitted for students in Political Science whose main field of study is Comparative Government, International Relations, or Political Theory, and students in Economics whose main field is either the Theory of Economic Development or Economic History.

NOTE FOR CANDIDATES FROM THE UNITED STATES OR ABROAD

Candidates from the United States or elsewhere are advised that a Canadian honours degree in Economics and Political Science ordinarily comprises a reasonable acquaintance with the theoretic literature in both fields, a knowledge of the development of the science, and some degree of specialization in one field or the other.

DEPARTMENT OF EDUCATION

Professors

D. C. MUNROE, *Chairman*

Staff of the Institute of Education

The course leading to the degree of Master of Arts is intended to encourage teachers who have completed the basic academic and professional training to proceed with further graduate studies. Many will wish to develop and perfect the teaching procedures in certain subject areas so that they may improve their technical skill; others will wish to deepen their knowledge of the historical and philosophical foundations of education; some will be interested in specialized studies in psychology and sociology; administrative and supervisory officers will benefit from research in school organization and procedure. In addition to those who enter the course from professional interest, there may also be some who wish to study the relationship of education to other disciplines and aspects of public administration. For students in all these categories the course provides unusual opportunities for advanced study.

The course is planned so as to give the student a broad survey of educational thought, experience in specialized and statistical studies, familiarity with recent research and present practice and an understanding of educational administration in Canada.

ENTRANCE REQUIREMENTS

First Class Diploma or the equivalent B.Ed. degree with at least second class standing.

GRADUATE STUDIES

Candidates entering with degrees other than the B.Ed. (McGill) must present a degree from an approved university with second class standing in at least one continuation subject. To meet the requirement for entrance they may take the following courses in a qualifying summer or winter session:

Education 600—Educational Measurement (Education 310 or 501)

Education 601—Studies in Educational Thought (Education 400 or 500)

Candidates from other universities may also be permitted to qualify by writing a comprehensive examination in Educational Theory and Practice.

PROGRAMME OF THE COURSE

The course begins with a Summer Session in July which is followed by a Winter Session of part or full-time study and a second Summer Session. It may be completed in a minimum of fifteen months.

FIRST SUMMER SESSION

Education 610—Modern Educational Practice

Education 611—Methods of Educational Study and Research

WINTER SESSION

Education 620—Studies in Comparative Education

Education 621—Thesis Preparation

SECOND SUMMER SESSION

Education 630—Modern Studies in Educational Psychology

Education 631—The Administration of Education in Canada

During the Winter Session the student will choose one of the following areas of concentration:

1. Methods of Teaching a Special Subject
2. History and Philosophy of Education
3. Educational Psychology and Sociology
4. Educational Administration

Seminars will be held in each of these subjects and the candidate will begin his research project and the preparation of the thesis under the director of research in his special area of study. Monthly seminars will also be held in Comparative Education.

REGISTRATION AND FEES

For the Summer Session candidates register and pay their fees at Macdonald College; for the Winter Session they register at the Registrar's

ELECTRICAL ENGINEERING

Office and pay their fees at the Accounting Office, McGill University. Tuition fees for the three sessions are as follows:

First Summer Session.....	\$200
Winter Session.....	\$150
Second Summer Session.....	\$150

In addition sessional registration forms must be submitted to the Dean of the Graduate Faculty, through the Director of the Institute of Education, not later than July 2nd for the Summer Session and not later than September 21st for the Winter Session.

GENERAL INFORMATION

The Summer Sessions will be conducted at Macdonald College where residential accommodation is available for both men and women students. The Summer Session in 1960 will open on Monday, July 4th, and continue for five weeks with lectures on six days each week.

CERTIFICATE OF GRADUATE STUDY IN EDUCATION

This certificate is offered for those who wish to qualify for administrative or supervisory positions in the educational system but do not wish to submit the thesis required for the Master of Arts degree.

The entrance requirements and admission procedures are the same as those for the M.A. degree (above), save that candidates must have had approved teaching experience.

The programme of the course is the same as that for the M.A. degree (above), save that in the Winter Session the weekly seminars will be replaced by a seminar on case studies in administration, and directed study. The course may, as above, be completed in a minimum of fifteen months.

DEPARTMENT OF ELECTRICAL ENGINEERING

<i>Professors</i>	G. L. D'OMBRAIN, <i>Chairman</i> F. S. HOWES
<i>Associate Professors</i>	T. H. BARTON G. W. FARNELL T. J. F. PAVLASEK W. H. SCHIPPEL
<i>Assistant Professor</i>	R. P. COMSA

GRADUATE STUDIES

Advanced courses of instruction and laboratory facilities are available for engineering graduate students desiring to proceed to the degrees of M.Eng. and Ph.D. Similar courses are provided for physics graduates leading to the M.Sc. and Ph.D. in Electrical Communications. No registration for a Ph.D. will be considered unless the applicant has a Master's degree acceptable to the Department. All other candidates for a Ph.D. will be required to register first for a Master's degree. The candidate's work will be reviewed by the Department at the end of the first year of resident study, and the Department may then recommend that the registration be changed to a Ph.D.

The Department is adequately equipped for research in the field of electrical engineering and has special facilities in the following areas: power modulators, electronics, surge generation, acoustics, control engineering, microwave techniques.

GENERAL REQUIREMENTS

The requirements concerning admission and registration are detailed at the beginning of the Calendar. In general, candidates have to satisfy course requirements, submit a thesis and satisfy the examiners at an oral examination.

The required courses are chosen by the Department to further the proposed work of the candidate.

ADVANCED DIPLOMA IN ENGINEERING

For engineers whose undergraduate record would permit their registration for a Master's degree, but whose circumstances do not allow them to fulfil the thesis requirements, there is available an advanced Diploma in Electrical Engineering. The granting of the Diploma is dependent on the satisfactory completion of an integrated programme of five courses selected by the Department and given in the evenings under the auspices of the Department of University Extension.

COURSES

G401. POWER SYSTEM ANALYSIS STABILITY	<i>Professor Schippel</i>
G402. ELECTRIC MACHINE DESIGN	<i>Professor Schippel</i>
G403. FEEDBACK CONTROL SYSTEMS	<i>Professor d'Ombain</i>
G404. UNIFIED THEORY OF ELECTRIC MACHINES	<i>Professor Barton</i>
G406. ELECTRICAL POWER TRANSMISSION AND DISTRIBUTION	<i>Professor Schippel</i>
G407. POWER MODULATORS	<i>Professor Barton</i>
G411. APPLIED MATHEMATICS	<i>Professor Wallace</i> (Dept. of Mathematics)

ELECTRICAL ENGINEERING

- G412. OPERATIONAL CALCULUS AND MATRIX ALGEBRA *Professor Rosenthall*
(Dept. of Mathematics)

- G413. COMPLEX VARIABLE WITH ENGINEERING APPLICATIONS
Professor Rosenthal
(Dept. of Mathematics)

- G414. RADIATION THEORY AND ANTENNAS

- G415. ENGINEERING ACOUSTICS

- Professor Howes*

- G416. MICROWAVE THEORY AND TECHNIQUES

- Professor Pavlasek*

- ## G417. NETWORK ANALYSIS

- Professor Pavlasek*

- G418. TRANSIENT ANALYSIS AND PULSE TECHNIQUES

- Professor Farnell*

- G419. TRANSISTOR ELECTRONICS

- Professor Farnell*

- G420. MATHEMATICS FOR DIGITAL COMPUTERS

- G421. PRINCIPLES OF SERVOMECHANISMS

- G423. DIGITAL AND ANALOG COMPUTERS

- G424. GRADUATE SEMINAR

and the following half courses:

- G440. ELECTRICAL MACHINE DESIGN

- Professor Schippel*

- ## G441. RADIO ENGINEERING DESIGN

- Professor Howes*

- G442. CONTROL ENGINEERING DESIGN

- Professor d'Ombraïn*

- G443. ELECTRO-MAGNETIC THEORY

- Professor Pavlasek*

- #### G444. NUMERICAL ANALYSIS

- Professor Thorpe*

- (Computation Center)

- G445. MATHEMATICAL MACHINE METHODS

- Professor Thorpe*

- (Computation Center)

- G446. INTRODUCTION TO PROBABILITY AND STATISTICS

- Dr. I. Gutman*

- (Dept. of Mathematics)

- G447. ELECTRICAL POWER SYSTEM ANALYSIS

- Professor Schippel*

- G448. POWER MODULATORS FOR CONTROL SYSTEMS

- Professor Barton*

and the following courses offered at Carleton University, Ottawa:

- G425. RADIATION THEORY AND ANTENNAS

- G426. FEEDBACK CONTROL SYSTEMS

- Mr. W. J. M. Moore*

- G427. AUTOMATIC CONTROL

- Dr. J. H. Milsum*

- G428. DIGITAL AND ANALOG COMPUTERS

- Mr. R. F. Lindon*

GRADUATE STUDIES

G429. MICROWAVE THEORY AND TECHNIQUES	<i>Dr. G. C. McCormick</i>
G430. VIBRATION AND SOUND	<i>Dr. E. A. G. Shaw</i>
G431. TRANSISTOR THEORY AND APPLICATIONS	<i>Dr. J. H. Simpson and Mr. R. Richards</i>
G433. APPLIED MATHEMATICS	<i>Dr. P. Mandl</i>
G434. RADIO WAVE PROPAGATION	<i>Dr. L. H. Doherty</i>
G435. OPERATIONAL CALCULUS AND MATRIX ALGEBRA	<i>Dr. P. Mandl</i>

Not all of the above courses are offered every session.

DEPARTMENT OF ENGLISH

Professors

RALPH S. WALKER, *Chairman*
H. G. FILES
JOYCE HEMLOW

Associate Professors

ALEC LUCAS
HUGH MACLENNAN
ARCHIBALD MALLOCH

Assistant Professors

CONSTANCE BERESFORD-HOWE
CURTIS D. CECIL
LOUIS DUDEK
ALAN HEUSER
SLAVA KLIMA
MARTIN PUHVEL
HARRY M. RITCHIE
GORDON F. SLEIGH

UNDERGRADUATE PREREQUISITES

Applicants for admission to the Faculty as candidates for the M.A. degree, in addition to holding the B.A. degree, must normally have obtained first or second class Honours in English at McGill University, or the equivalent elsewhere. An undergraduate candidate for Honours in English at McGill must take, in the 2nd, 3rd, and 4th years, a total of ten courses, including Half Courses 305a or 305b (Chaucer) and 315b (16th century), and Courses 200 (Shakespeare), 320 (17th century), 220 (18th century), 230 or 322a and 322b (19th century), and 340 (20th century). The remaining four courses are chosen from those approved by the Department as Honours courses or Cognate courses.

Applicants for admission who in the opinion of the Department lack the equivalent of this training may be permitted by the Dean and the Department to take a qualifying year, provided that it is possible for them to make up the required qualifications by taking not more than

five Honours courses in this qualifying year. For particulars of the prerequisite courses, see the Announcement of the Faculty of Arts and Science.

REQUIREMENTS FOR THE DEGREE OF MASTER OF ARTS

Candidates for the degree of M.A. in English must take three courses (two half courses counting as one full course) from the list given below, and in addition the Half Course in Bibliography (500a), if the undergraduate Half Course in Bibliography (380a), or its equivalent, has not already been passed. The Course in Old English (504) must be included as one of the three required courses, if the undergraduate Course in Old English (300), or its equivalent, has not already been passed. A thesis on some subject approved by the Department must be written under the supervision of a Director appointed by the Department. Suitably qualified candidates may obtain permission to substitute a project in creative writing, such as a novel, for the thesis. Every student, after presenting his thesis, must be prepared, if so required by the Department, to submit to an examination, oral or written on its subject matter or background.

Students registered for courses or half courses listed below will meet their instructors twice or three times a week at the instructors' direction. *As some of the courses and half courses may not be available every year, it will be necessary for every M.A. degree candidate to consult the Department before making his choice from among them.*

COURSES FOR GRADUATES

500a. BIBLIOGRAPHY (Half course). An introduction to the apparatus and methods of scholarship in literary studies.

First term.

Professor Malloch

502. LITERARY CRITICISM (Full course). The nature of literature and literary criticism; the great critics and the critical thought of the West from the beginnings in Greek criticism (with special emphasis on Plato, Aristotle, and Longinus) through the Renaissance to the present time.

Professor Files

504. OLD ENGLISH (Full course). English Language and Literature up to the Norman Conquest. The course includes readings from Anglo-Saxon prose in the first term, and, in the second, a study of heroic poetry. The texts used are: Bright, *Anglo-Saxon Reader* and *Beowulf* (ed. Klaeber).

Professor Puhvel

505a. INTRODUCTION TO MIDDLE ENGLISH (Half course). A study of representative Middle English texts, all included in Brandl and Zippel, *Middle*

GRADUATE STUDIES

English Literature. The historical development of Middle English and the distinctive features of the dialects are noted.

First term.

Professor Puhvel

- 506b. MIDDLE ENGLISH LITERATURE (Half course). *Gawain and the Green Knight* (ed. Tolkien and Gordon) and *The Pearl* (ed. Gordon): a study of the texts and their literary background. Students who have not taken English 505a may not take this course except by special permission.

Second term.

Professor Puhvel

- 507b. THE ARTHURIAN LEGEND (Half course). Studies in the origin and development of the Arthurian legend, and representative reading in Arthurian literature. Writers such as Geoffrey of Monmouth, Chrestien de Troyes, and Marie de France are studied in translation.

Second term.

Professor Puhvel

- 508b. CHAUCER (Half course). A study of the *Romaunt of the Rose*, the dream-vision poems, and *Troilus and Criseyde*, with a historical survey of the development and variations of the Troilus story.

Second term.

Professor Hemlow

- 512a. MARLOWE (Half course). A study of Marlowe's work in relation to the work of Peele, Greene, and Kyd, and of its possible influence on Shakespeare; with particular attention to *Dr. Faustus* and the critical problems connected with it.

First term.

Professor Walker

- 514a. SPENSER (Half course). The Renaissance theory of poetry and a study of *The Faerie Queene* in relation to its historical, philosophical, social, and literary backgrounds; with supplementary reading illustrative of the literary and intellectual climate of the Renaissance.

First term.

Professor Hemlow

- 516a. SHAKESPEARE (Half course). A study of *Hamlet*, its principal sources and main textual and interpretative problems; with prescribed reading from critical literature dealing with various aspects of the play.

First term.

Professor Walker

- 518b. BEN JONSON (Half course). A study of Jonson's work as a whole, dramatic, lyrical, and critical, with prescribed reading from the plays, poems, and masques, the *Discoveries* and *Conversations*, and from relevant critical literature.

Second term.

Professor Walker

- 522b. MILTON (Half course). A study of *Paradise Lost*, *Paradise Regained*, and *Samson Agonistes*, and of the bearing of the earlier works on these major poems, with prescribed reading from the critical literature.

Second term.

Professor Malloch

524a. THE COMEDY OF MANNERS (Half course). Representative plays by Etherege, Wycherley, Congreve, and Farquhar, with a detailed study of *The Man of Mode*, *The Country Wife* and *The Way of the World*.

First term.

Professor Cecil

526a. POPE AND SWIFT (Half course). A study of the satirical writings of Pope and Swift, with reference to the thought and literary traditions of the Augustan age.

First term.

Professor Klima

528b. JOHNSON AND HIS CIRCLE (Half course). A study of the principal works of Dr. Johnson and of the literary and critical climate of his age, as revealed in the writings of Garrick, Reynolds, Burke, Boswell, the Burneys, and Mrs. Thrale.

Second term.

Professor Hemlow

530a. WORDSWORTH AND COLERIDGE (Half course). A study of *The Prelude* and *The Excursion* and of their relationship both to Wordsworth's earlier poetry and to Coleridge's poetical theory and practice.

First term.

Professor Lucas

532b. BROWNING (Half course). A selective study of the principal works, of the distinctive characteristics of Browning's art, and of the religious and intellectual tendencies reflected in his writing.

Second term.

Professor Lucas

533a. THE VICTORIAN NOVEL. Studies in Dickens, George Eliot and Hardy.

First term.

Professor Lucas

534a. HAWTHORNE, MELVILLE AND JAMES (Half course). A comparative study in the growth of an American tradition of novel-writing and in the development of its technical resources.

First term.

Professor Files

536b. HOPKINS, YEATS AND ELIOT (Half course).

Second term.

Professor Heuser

540. CROSS-CURRENTS BETWEEN ENGLISH LITERATURE AND THE EUROPEAN LITERATURES IN THE 18TH CENTURY (Full course). The influence of continental literature and criticism on the English neo-classicism of the 18th century and the influence of English literature and criticism on European writers from the time of Voltaire to the rise of Byronism. Reference is made to the works of French, German, and Italian writers. A reading knowledge of French is a prerequisite.

Professor Klima

GRADUATE STUDIES

542. EUROPEAN HUMANISM AND ENGLISH LITERATURE IN THE 20TH CENTURY (Full course). The texts are available in English translation, but a reading knowledge of French or German is a prerequisite.

Professor Klima

REQUIREMENTS FOR THE PH.D. DEGREE

The programme consists of a minimum of three years' work. A candidate will normally satisfy the requirements of the first year by obtaining a Master's degree in English at McGill (or an equivalent qualification elsewhere) and by passing a comprehensive examination.

Three graduate courses must be taken beyond the Master's degree, including a course in Middle English if this requirement has not already been met.

All candidates must pass reading examinations in Latin and either French or German. In special cases another language may be substituted for French or German.

At the completion of courses there will be an examination on the whole field of English Literature which, if necessary, may be attempted once more at the next sitting.

Candidates may be permitted to spend a year, for purposes of research, at an approved institution elsewhere.

Each candidate must submit a thesis on a subject falling within one of the approved fields of study (a list of which may be obtained on application to the Dean of Graduate Studies) and defend it at a specially convened oral examination.

ENTOMOLOGY

(Department of Entomology & Plant Pathology, Macdonald College*)

Professors D. K. McE. KEVAN, *Chairman*
E. M. DUPOURTE (*Post-retirement*)

Associate Professors R. S. BIGELOW
F. O. MORRISON

Assistant Professor J. E. McFARLANE

Research Associate N. R. FRASER

A liberal interpretation is put on the term Entomology. Adequate laboratory and library facilities are available for the courses listed below and for research. Students may be recommended to take courses

*For Plant Pathology, see p. 2750.

ENTOMOLOGY

offered by the Department of Zoology and in Plant Pathology, either as part of their major work or as cognate subjects.

The courses consist of informal lectures, directed reading, laboratory work, special assignments, colloquia and discussions. Field work where appropriate or practicable may also be required. Formal lectures may be given from time to time and excursions arranged to places of interest. All members of the graduate school, while resident at Macdonald College, are expected to take an active part in all departmental seminars and themselves to address at least one seminar meeting.

COURSES FOR HIGHER DEGREES

60. ADVANCED INSECT MORPHOLOGY
Full course. *Professor DuPorte*
61. ADVANCED TAXONOMY
Full course. *Professor Bigelow*
In addition to general taxonomy and taxonomic theory, this course includes the special study of a selected group of insects.
62. ADVANCED INSECT PHYSIOLOGY
Full course. *Professor McFarlane*
63. ADVANCED TERRESTRIAL ECOLOGY
(i) General insect ecology and population dynamics (half course).
Professor Morrison or Professor McFarlane
(ii) Soil Zoology (half course). *Professor Kevan*
Parts (i) and (ii) may be reversed in order or given concurrently, according to circumstances. Special permission may be given to take one part only, either as a half course or, in an extended form, as a full course (see also 64).
64. ADVANCED ECONOMIC ENTOMOLOGY
Full course. *Professor Morrison*
Under certain circumstances 63, Part (i) may be substituted for part of this course.
65. VETERINARY AND MEDICAL ENTOMOLOGY
Full or half course. *Professor Kevan*
Given only by special arrangement.
67. SEMINAR
One meeting weekly. *Staff*
68. BIBLIOGRAPHY OF ENTOMOLOGY
Short course, 1st or 2nd term. *Professor DuPorte*

GRADUATE STUDIES

M.Sc. REQUIREMENTS

Candidates for admission must have had (1) satisfactory previous training in mathematics, physics, chemistry and biology; and (2) have obtained at least second class standing in the undergraduate courses in Entomology given at Macdonald College, or their equivalent. For students who satisfy these conditions the minimum period of study is one year, for others two years, one of which may be a qualifying year in which advanced undergraduate courses are usually taken.

In addition to presenting a thesis the student shall take such courses and write such examinations as are deemed necessary by the chairman of the department in consultation with the director of the candidate's research. Normally this amounts to a minimum of two full courses (or their equivalent) in addition to Entomology 68 and the seminar. For the latter a mark is required in the first year (or in the case of qualifying students in each of the first two years).

The candidate will normally be expected to spend at least one summer season in full-time research at Macdonald College or, under suitable direction, at some other approved institution.

Ph.D. REQUIREMENTS

Students who have obtained a high standing in the M.Sc. in Entomology at McGill University or its equivalent (including M.Sc. in Zoology, with a sound entomological background), may proceed to the Ph.D. degree in two additional years. Under certain circumstances students holding a B.Sc. degree of high standing may register directly for the Ph.D. with the consent of the Chairman of the Department, but before being allowed to enter second year, such students must pass an examination to determine their fitness to proceed.

In addition to presenting a thesis the candidate may be required to take such courses and pass such examinations as are decided upon in consultation with the chairman of the department and the director of his research. Normally no course work (other than Seminar) will be required during the final year and not usually more than one full course (or its equivalent) during the preceding year for candidates already possessing an M.Sc. of McGill University or its equivalent. Candidates may, however, be advised to attend courses bearing on their research work at any time during their period of resident study.

Participation in seminars will be taken into consideration in the final assessment of the candidate, but formal marks will not be given.

Ph.D. candidates may be permitted to spend one of their three years of full-time graduate study at an approved university or research institution other than McGill University. The candidate may be required

EXPERIMENTAL MEDICINE

to spend the equivalent of two summer seasons in full-time research at Macdonald College or, under suitable direction, at some other approved institution.

Candidates for M.Sc. or Ph.D. degrees should indicate their fields of special interest before making formal application for admission. Facilities are available for research in most branches of entomology and in related fields, but candidates with special problems should consult the chairman of the department in advance.

DEPARTMENT OF EXPERIMENTAL MEDICINE

<i>Professors</i>	RONALD V. CHRISTIE, <i>Chairman</i> D. G. CAMERON
<i>Associate Professors</i>	JOHN C. BECK E. H. BENSLEY M. M. HOFFMAN BRAM ROSE ELEANOR H. VENNING
<i>Assistant Professors</i>	L. G. JOHNSON K. R. MACKENZIE

COURSES FOR THE DEGREE OF M.Sc. or Ph.D.

61. SEMINAR. 1 hour weekly throughout the session (to be registered for as Investigative Medicine 61).
62. ADVANCED ENDOCRINOLOGY (to be registered for as Investigative Medicine 62).
2 hours weekly throughout the session.
63. ADVANCED ENDOCRINOLOGY (to be registered for as Investigative Medicine 63).
2 hours weekly throughout the session.
Courses 62 and 63 are given in alternate years.
Course 62 will be given in 1960-61.
64. CLINICAL ENDOCRINOLOGY (to be registered for as Investigative Medicine 64). 1 hour weekly throughout the session.
65. PHYSIOPATHOLOGY. 1 hour weekly throughout the session.
66. PRINCIPLES AND METHODS OF CLINICAL INVESTIGATION (to be registered for as Investigative Medicine 66).
67. SEMINAR—Cardiorespiratory Physiopathology. 1 hour weekly.

GENERAL STATEMENT

The Department offers courses leading to the degrees of M.Sc. and Ph.D. in the Faculty of Graduate Studies and Research and provides

GRADUATE STUDIES

research facilities for these students or for other persons proceeding to graduate degrees, diplomas or for other qualified individuals.

The courses and the direction of research in this department are given in close collaboration with the Department of Investigative Medicine and members of either department give lectures and direct the research of graduate students registered in the other.

Students may work either in the University Clinic Montreal General Hospital, University Clinic Royal Victoria Hospital or in the Department of Investigative Medicine depending on the type of work done (clinical or laboratory) or upon the individual directing the research.

Work in the Division of Immuno-chemistry and Allergy, University Clinic, Royal Victoria Hospital which is under the direction of Dr. Bram Rose and Dr. Maxwell Richter is directed towards the isolation and characterization of antigens and antibodies and the consequences of their interaction. These include not only systems relative to the common forms of allergy, but also those which may be involved in auto-immune diseases. In addition to adequate ordinary laboratory facilities, special equipment is available for the study of antibody-antigen interactions by immunochemical, histopathological and physico-chemical methods, such as zone and free electrophoresis, preparative and analytical ultracentrifugation, fluorescein and isotope tagging. These techniques are also used for the identification of abnormal moieties present in sera from patients suffering from various diseases. The laboratory and clinical findings are presented at weekly discussions. In view of the complex nature of the problems and the diversified methods used, students from clinical as well as the basic science departments may pursue their graduate work in this Division. The course work and the research programme of each student are decided in consultation with the department in which he is registered for the M.Sc. or Ph.D. degree.

Students holding either the M.D. or the B.Sc. degree or its equivalent may enter the department provided that their standing is acceptable.

DEPARTMENT OF EXPERIMENTAL SURGERY

<i>Professors</i>	H. R. ROBERTSON, <i>Chairman</i>
<i>Director of Laboratory</i>	D. R. WEBSTER
<i>Assistant Professor</i>	S. C. SKORYNA

COURSES FOR THE DEGREE OF M.Sc.

61. SEMINAR. Physiopathological principles in surgery.
62. SURGICAL ANATOMY. 1 hour weekly and demonstrations in anatomy laboratory to undergraduate medical students.

63. SURGICAL PHYSIOLOGY. 1 hour weekly.
64. SURGICAL PATHOLOGY. 1 hour weekly.
65. MEDICAL STATISTICS. 1 hour weekly.

GENERAL STATEMENT

The Department offers courses leading to the degree of M.Sc. in the Faculty of Graduate Studies and Research and provides facilities for graduate research in surgery. Arrangements may be made for students wishing to proceed to a Ph.D. degree.

A candidate for the degree of Master of Science in Surgery must possess an M.D. degree together with a better than average academic record. His previous interest and experience in investigative work is taken into consideration in the selection of such a candidate. The major part of the student's time shall be devoted to research in some special field of investigative work. A thesis covering this subject, judged chiefly upon its original quality, shall be the prime requisite for his degree.

In addition the student shall be required to attend certain courses of graduate instruction in the basic sciences. These courses are being given in co-operation with the Departments of Physiology and Pathology and the staff of the Teaching Hospitals of the University. Candidates are required to take comprehensive examinations in Experimental Surgery and Surgical Anatomy.

For the purpose of assisting the student's research, conferences are held frequently within the Department and a Surgical Journal Club is conducted weekly. The main research interests of the Department are at present: experimental carcinogenesis, cardiovascular surgery, gastroenterology, haemorrhagic shock and the effects of thermal injury. In addition, several research projects are conducted in surgical specialties and consideration will be given the particular interests of the candidate in the selection of the field of research.

DEPARTMENT OF FRENCH

<i>Professor</i>	J. E. L. LAUNAY, <i>Chairman</i>
<i>Associate Professors</i>	MME P. L. LARIVIÈRE LOUIS D'HAUTESERVE MLLE M. TH. REVERCHON
<i>Assistant Professors</i>	MLLE YVONNE CHAMPIGNEUL ANDRÉ A. RIGAULT

GRADUATE STUDIES

COURSES FOR THE DEGREE OF MASTER OF ARTS

60. LA FONTAINE
1 hour. *Professor Champigneul*
61. LA CRITIQUE LITTÉRAIRE (Histoire et Méthodes)
2 hours. *Professor Launay*
62. MARCEL PROUST
1 hour. *Professor Larivière*
63. EXERCICES PRATIQUES (Colloquia)
1 hour. *Staff*
64. LA POÉSIE SYMBOLISTE
1 hour. *Professor Reverchon*
65. COURS DE TRADUCTION AVANCÉE
2 hours. *Professor Launay*
- *42. LA LITTÉRATURE ET LES IDÉES SOCIALES AU 19^e SIÈCLE
3 hours. *Professor d'Hauteserve*
- *44a. HISTOIRE DE LA LANGUE FRANÇAISE
1 hour. *Professor d'Hauteserve*
(Given in 1961-62.)
- *44b. FRENCH STYLISTICS
2 hours. *Professor Launay*
(Given in 1961-62.)
- *45. HISTOIRE DU ROMAN EN FRANCE
3 hours. *Professor Launay*
- *46. HISTOIRE DE LA POÉSIE LYRIQUE EN FRANCE
3 hours. *Professor Larivière*
(Given in 1961-62.)
- *47. LA LITTÉRATURE FRANÇAISE CONTEMPORAINE
3 hours. *Professor Larivière*
- *48. ADVANCED PHONETICS
2 hours. *Professor Rigault*

*These are also Honours Courses in the Faculty of Arts and Science.

Candidates for the Master's degree in French will take courses 60, 61, 62, 64, 65, and one course in the Department of English selected in consultation with the Chairman of the French Department.

The M.A. thesis must be written in French.

Students cannot normally obtain an M.A. in less than two years (one year for prerequisite courses, one year for research and writing of thesis). Students from other Provinces and States where the opportunities of speaking French are small may be required to take a Qualifying Year of studies before they are accepted by the Faculty as Graduate Students. During this Qualifying Year students are required to take at least two full undergraduate honours courses (which they must pass with second-class standing) and such other subsidiary courses (phonetics and translation) as the Department may direct. In certain cases students accepted for the Qualifying Year only may be advanced to full graduate standing at the end of the first term of the winter session if they have shown sufficient promise and ability in their first three months of work.

Students from other universities applying for admission to the Graduate Faculty as French specialists must hold a B.A. degree with at least good second-class standing in French, or the equivalent. This must include an ability to speak French fluently, and a sound knowledge of French literature from 1600 to 1940. Whenever possible an interview will be arranged prior to admission to graduate standing.

REGULATIONS FOR THE MASTER OF ARTS DEGREE TAKEN IN

THE FRENCH SUMMER SCHOOL

1. All work carried on towards an M.A. degree in the French Summer School is under the control and supervision of the Department of French in the Faculty of Graduate Studies of the University.

2. Requirements for the Master's degree:

(a) The student must hold the degree of B.A. from McGill University or from another institution of recognized standing, with at least second class honours in French, or the equivalent of second class honours in French as granted by McGill University—which must include an ability to speak French fluently, and a sound knowledge of French literature from 1600 to 1940.

(b) A student qualified as in 2 (a), must complete four sessions in the Advanced Section of the French Summer School with at least second class standing in the final examinations of each session.

(c) The student must prepare and present a thesis, written in French, which must be in some measure a contribution to knowledge. Its preparation is carried out under the direction of the French Department.

GRADUATE STUDIES

3. Students applying for admission to the Advanced Section of the Summer School, with the intention of proceeding towards the M.A. degree, should, as soon as possible, have a transcript of their academic record sent for appraisal to the Director of the School.

Students whose record is considered the equivalent of the B.A. degree with at least second class honours in French as granted by McGill University will be notified of their eligibility for future admission to the Faculty of Graduate Studies of the University. *At the end of their second session they will apply for admission to the Faculty as candidates for the M.A. degree, provided they have completed the course requirements for the first two sessions, but they will not register in the Graduate Faculty until the end of the fourth session; they must then register with the Dean as non-resident students, pending completion of the required thesis.* (See also Section 18 of the General Faculty regulations, page 2618.)

Students who hold a B.A. degree but whose record is not considered the equivalent of the McGill B.A. with at least second class honours in French, may be allowed to make up the deficiency by taking more courses during their third and fourth summer sessions. They will also be admitted to the Graduate Faculty at the end of the second summer session, provided that they have obtained at least a high second class standing in the courses of the first two summer sessions.

4. In the case of students of honours standing, the first summer session consists of five courses, the second of four courses, the third of three courses, and the fourth of two courses, each course consisting of three lectures per week. The decreasing number of courses through the four sessions enables the student to devote more time to the preparation of his thesis, which must begin in the third session at latest. Each student works under the guidance of a director of research who is a member of the French Summer School staff. The only listed course which may be taken for credit in more than one session is No. 31 Advanced Composition (see below).

Students may be required to take certain courses which are changed from year to year, and in any case:

30(a) and 30(b). FRENCH STYLISTICS. Students are advised to take this course during their second and third sessions.

31. ADVANCED COMPOSITION. A minimum mark of 65% must be obtained in the final examination of this course, irrespective of the final average for the set of courses taken during the session. The course must be repeated until this requirement has been met. As its material is varied each year, it can be taken a second summer for credit. If taken more than twice, it must then be carried as an extra course.

GENETICS

5. With the approval of the Graduate Faculty, one of the summer sessions, except the first, may be replaced by equivalent work in France or at another French Summer School.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Candidates for this degree will not be accepted until further notice.

DEPARTMENT OF GENETICS

In Montreal

Professors	J. W. BOYES, <i>Chairman</i> F. C. FRASER
Associate Professor	E. R. BOOTHROYD
Assistant Professor and Research Fellow	J. D. METRAKOS
Research Fellow	K. METRAKOS
Lecturer and Research Associate	E. KÄFER-BOOTHROYD
Research Associate	D. G. TRASLER

At Macdonald College

Associate Professor	R. I. BRAWN
Assistant Professor	W. F. GRANT

Students in the following categories will normally be accepted for graduate studies in this Department:

1. Honours graduates in either Botany or Zoology at McGill who have completed at least one full course in Genetics and one full course in the non-honours subject of either Botany or Zoology.
2. Graduates of McGill who have taken a continuation in Genetics plus a minimum of two full courses in each of Zoology and Botany, who have an average standing of over 65%.
3. Students from other Universities or Agricultural Colleges who have records approximately equivalent to those of any of the above categories.
4. Students who have completed the General Honours Course in Biological Subjects with standing acceptable to this Department.
5. Students who have completed an Honours Course in Genetics.

GRADUATE STUDIES

Other students who have fulfilled part of the above requirements or have a sound knowledge of General Biology plus other special qualifications will normally be required to spend a qualifying session on an approved programme of studies.

The Department will welcome students from other fields of Biological Science or from Agricultural Institutions who are interested in familiarizing themselves with the significance of hereditary variables in their particular fields of interest.

With the co-operation of the Department of Botany and the Faculty of Agriculture adequate laboratory, greenhouse, field, and library facilities are available for research in Plant or Animal Genetics and Cytology. With the cooperation of the Department of Pediatrics and the Montreal Children's Hospital, facilities are provided for training in Human Genetics.

COURSES FOR HIGHER DEGREES

- 32a. CYTOLOGY (Half course)
First term: 2 hours and a 3-hour laboratory period. *Professor Boothroyd*
- 36b. DEVELOPMENTAL GENETICS (Half course)
Second term: 3 hours. *Professor Fraser*
- 42b. MICROBIAL GENETICS (Half course). An analysis of recent progress in the genetics of microorganisms such as viruses, bacteria, yeasts, paramecia, algae, fungi, etc.
Second term: 3 hours. *Dr. Käfer-Boothroyd*
- 43b. ADVANCED CYTOGENETICS (Half course)
Second term: 3 hours. *Professors Boyes and Boothroyd*
(Not given in 1960-61.)
44. BIOMETRY (Full course). Applications of statistics to research problems in biology.
2 hours lectures and 3 hours of computation. *Professor —*
45. GENETICS IN EVOLUTION AND POPULATION DYNAMICS (Full course). A consideration of genetic concepts and processes involved in the origin and maintenance of populations and species, including: the origin of hereditary variations, adaptation, selection, migration, isolation, hybridization, breeding methods, genetic drift, the establishment of genetic equilibrium, the breakdown of species.
3 hours. *Professors Boyes and —*
Prerequisite: Genetics 32a.
Texts: Dobzhansky, Genetics and the Origin of Species, third ed.; Lerner, The Genetic Basis of Selection.

- 46a. THE GENETICS OF MAN (Half course). Principles of heredity and special techniques as applied to the study of man's genetic diversity will be considered at an advanced level.

First term: 3 hours.

Professor Metrakos

- 48a. DESIGN OF EXPERIMENTS (Half course). General principles of experimentation, and designs appropriate to a wide variety of problems. Completely randomized, randomized blocks and Latin square designs: their purposes, design and analysis. Factorial experimentation, interaction, confounding, randomization and error terms. Complex experiments and an elementary treatment of incomplete block designs. Concomitant measurements, sensitivity and control of error variation. Examples drawn from biology.

First term: 2 hours and 3 hours laboratory (arranged). Professor —

Prerequisite: Genetics 44 or the equivalent.

Text: Fisher: The Design of Experiments (Oliver and Boyd).

(Not given in 1960-61.)

51. SEMINAR. Weekly reports by students and staff on current researches in Cytology and Genetics.

- 56a. ADVANCED PHYSIOLOGICAL GENETICS (Half course). Problems of gene structure and gene function will be considered at an advanced level. The content of the course will be flexible enough to permit inclusion of new developments in the field as they occur. Topics will include the template hypothesis, pseudo-alleles; hetero-alleles and iso-alleles; the Watson-Crick model; gene conversion; genes and enzymes; developmental homeostasis; genes and differentiation.

First term: 3 hours.

Professor Fraser and other staff members

Prerequisite: Genetics 36b, or the equivalent.

COURSES GIVEN AT MACDONALD COLLEGE

- 62a. CYTOLOGY (Half course). The protoplasmic organization of the cell.

2 lects., 1 lab., per wk., 1st term.

Professor Grant

Prerequisite: Genetics 330a.

- 62b. CYTOGENETICS (Half course). Considerations of genetical and cytological problems in self-incompatibility, linkage, polyploidy, interspecific and intergeneric hybridization, nullisomics, monosomics, etc.

3 lects. per wk., 2nd term.

Professor Grant

Prerequisite: Genetics 330a and 62a.

GRADUATE STUDIES

- 63b. MICROBIAL GENETICS (Half course). An analysis of recent progress in the genetics of microorganisms including viruses, bacteria, yeasts, paramecia, algae and fungi.

Second term: 3 hours.

Professor Grant

Prerequisite: Genetics 330a.

(Not given in 1960-61.)

- 64b. STATISTICAL METHODS IN GENETICS (Half course). A presentation and discussion of statistical methods of analysing genetic changes in populations of domestic animals and plants, with particular reference to pedigrees, heterosis, selection, etc.

3 lects. per wk., 2nd term.

Professor —

Prerequisite: Genetics 330a.

(Not given in 1960-61.)

REQUIREMENTS FOR THE DEGREE OF MASTER OF SCIENCE

Course 51 and credit for at least four other courses from the above are required for the Master's degree in addition to a thesis on a research problem.

A sound knowledge of General Biology is prerequisite.

The research problem may be in Genetics, Cytology or Cytogenetics.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Only candidates who have shown indications of distinct research ability will be permitted to register for the Ph.D degree. Course 51 must be taken in each year. See general regulations for further requirements.

Courses in other Biological Sciences at McGill and courses in Plant Breeding or Animal Breeding at Macdonald College may be required when it is desirable to extend the student's general background or experience for a particular problem.

DEPARTMENT OF GEOGRAPHY

Professors

F. K. HARE, *Chairman*
H. T. LLOYD

Associate Professors

J. B. BIRD
T. L. HILLS

Assistant Professor

R. N. DRUMMOND

Lecturers

F. C. INNES
G. H. MICHIE
J. T. PARRY
G. JACOBSEN

Honorary Lecturer

The Geography Department offers the degrees of M.A., M.Sc. and Ph.D. in Geography.

REQUIREMENTS FOR THE DEGREE OF MASTER OF ARTS

The following candidates will be eligible to proceed to the degree after one resident session at McGill:

- (1) students holding the Honours B.A. of McGill University in Geography;
- (2) students from other universities having Bachelor's degrees with a comparable specialization in Geography, together with the important cognate subjects.

Other candidates with degrees in Geography at McGill and other universities may proceed to the degree after one resident session, if, in the opinion of the Chairman, they can make good the deficiencies in undergraduate training in that session, or at the Geography Summer School. These candidates will not, however, be eligible to submit their theses for the May Convocation in that session.

Students with primary undergraduate specialization in a cognate field may, in certain circumstances, register for the M.A. degree in Geography, but will in general be required to register for a qualifying year, and will not be able to submit their theses until the end of the second resident year.

Candidates must

- (1) pass written (and in some cases oral) examinations in at least two of the graduate courses listed below;
 - (2) attend such courses in Geography or cognate subjects as the Chairman and the student's director of research think fit;
 - (3) submit a thesis in the fields of Human Geography, or in those parts of Geography having a significant bearing on settlement, including planning;
 - (4) comply with the general field-work requirement (see below).
- The quality of the thesis will determine the final standing of the student.

GRADUATE STUDIES

REQUIREMENTS FOR THE DEGREE OF MASTER OF SCIENCE

The following candidates will be eligible to proceed to the degree after one resident session at McGill:

(1) students holding the Honours B.Sc. of McGill University in Geography;

(2) students from other universities having Bachelor's degrees with a comparable specialization in Geography, together with the important cognate subjects.

Other candidates with degrees in Geography from McGill and other universities may proceed to the degree after one resident session, if, in the opinion of the Chairman, they can make good the deficiencies in undergraduate training in that session, or at the Geography Summer School. These candidates will not, however, be eligible to submit their theses for the May Convocation in that session.

Students with primary undergraduate specialization in a cognate field may, in certain circumstances, register for the M.Sc. degree in Geography, but will in general be required to register for a qualifying year, and will not be able to submit their theses until the end of the second resident year.

Candidates must

(1) pass written examinations in at least two of the graduate courses listed below:

(2) attend such courses in Geography or cognate subjects as the Chairman and the student's director of research think fit;

(3) submit a thesis in the fields of Physical Geography, or Cartography;

(4) comply with the general field-work requirement (see below)

The quality of the thesis will determine the final standing of the student.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Students who have attained high standing in the Master's degrees in Geography at McGill University, or have equivalent qualifications, may be permitted to proceed to the Ph.D. in two further years. In exceptional circumstances a student may be allowed to register for the Ph.D. without having first taken the Master's degree. Students are advised that in field subjects at least two summers of field work will normally be required.

Except in special circumstances the Department will restrict admission to the Ph.D. course to students prepared to work in one or other of the following fields: the physical, human and regional geography of North

America, Europe, the U.S.S.R. and the Arctic; historical geography and the history of geographical discovery of North America; climatology; geomorphology; glaciology; certain aspects of tropical geography.

A broad familiarity with the entire field of geography will be assumed in all students who register for the Ph.D. In their preliminary examinations, they must show professional competence, and will be judged as to their familiarity with the literature, methods, and organization of modern geography.

Candidates must

(1) remedy any deficiencies in their formal course-work in Geography to the Master's level, and must also ensure that they have adequate training in the important cognate subjects;

(2) submit themselves for written (and in some cases oral) examinations in five broad fields. These *preliminary examinations* must be chosen as follows: two (known as Geography 71 and 72) from physical geography, advanced physiography, advanced climatology, and cartography; two (known as Geography 73 and 74) from human geography, economic geography, political geography, historical geography, history of geographical thought and regional theory; one (known as Geography 75) on a major region of the earth (*viz.*, North America, Europe, etc.);

(3) submit a thesis in one of the fields listed above; and

(4) comply with the general field-work requirement (see below).

To comply with requirements (1) and (2) above, the candidate may take any of the graduate or undergraduate courses offered by the Department.

GRADUATE COURSES OR SEMINARS

(all courses one meeting weekly)

58 and 59. Special graduate courses given at Knob Lake Research Laboratory.

Professor

60. FRONTIER SETTLEMENT.

A comparative study of frontiers of settlement in northern lands, especially Canada, and in the Tropics. Special attention will be given to the process by which frontiers are expanded and pioneer fringes developed; the physical and cultural conditions influencing this expansion and development; the techniques and institutions involved.

Professor Hills and Staff

62. HISTORICAL GEOGRAPHY OF A SELECTED AREA IN NORTH AMERICA

The nature of historical geography and its development in recent years. The principles of historical geography are applied to a study of cultural landscape evolution in a restricted area of eastern Canada or United States.

The Staff

GRADUATE STUDIES

63a. CLIMATIC CHANGE WITH SPECIAL REFERENCE TO THE POSTGLACIAL EPOCH (Half course).

The concept of normal climate. The Pleistocene aberrations; glacial and pluvial climates and the interglacials. Postglacial sequences in North America and Europe; the thermal maximum. The recent climatic fluctuations. Causes of climatic change.

First term.

Professor Hare

65. THE PHYSIOGRAPHY OF A SELECT AREA OF NORTH AMERICA

An analysis of the evolution of the physical landscape of a small area in North America. The course makes considerable use of topographic maps and air photographs and requires the student to apply physiographic theory to actual areas.

Professor Bird

66. CARTOGRAPHY, WITH PARTICULAR REFERENCE TO SPECIAL PURPOSE MAPS

Survey of modern topographical maps of leading countries. Study of features and phenomena of physical and human geography on topographical maps of several countries. Comparison and appreciation of maps.

67. THE GEOGRAPHY OF THE ARCTIC

A study of Northern Lands with particular reference to Arctic Canada. Equal time will be devoted to the physical evolution and special characteristics of northern areas; and to the human response to the environment and recent economic development.

Professor Bird and Staff

68. REGIONAL GEOGRAPHY OF A SELECTED AREA

An advanced course designed to illustrate the processes of regional study.

The Staff

69. METHODS OF GEOGRAPHICAL RESEARCH

A review by the staff of the accepted methods of research in geographical problems, in both physical and human fields. Emphasis will be laid upon inadequacies in the existing methodology. The approach will be practical, and will require the presentation of formal research papers for criticism and discussion.

The Staff

71-75. PH.D. PRELIMINARIES (see above).

PLEISTOCENE SEMINAR

Attention is directed to the non-credit interdisciplinary "Seminar on Problems of the Pleistocene and Arctic" held once a week in the McCord Museum and organized by Mr. G. R. Lowther.

GEOLOGICAL SCIENCES

FIELD WORK REQUIREMENT

The Geography Department normally holds either an annual field trip immediately before the beginning of the session, to an area of geographical interest in either Eastern Canada or the Northeastern United States, or a local field camp, or a series of local field excursions during the fall term. All students in residence will participate in these field studies.

MCGILL SUBARCTIC RESEARCH LABORATORY

This laboratory (under the resident direction of Professor) is at Knob Lake (Schefferville), in the heart of Labrador-Ungava. Facilities exist for research in most aspects of physical geography, and there is a resident staff of five research assistants. Extensive summer field programmes are arranged. Two graduate courses (Geography 58 and 59) are offered. All enquiries should be addressed to the Chairman, Geography Department.

DEPARTMENT OF GEOLOGICAL SCIENCES

<i>Professors</i>	J. E. GILL, <i>Chairman</i> T. H. CLARK E. H. KRANCK
<i>Associate Professors</i>	V. A. SAULL C. W. STEARN J. S. STEVENSON
<i>Assistant Professors</i>	L. A. CLARK P. R. EAKINS J. A. ELSON A. J. FRUEH G. R. WEBBER
<i>Lecturer</i>	H. DEHN
<i>Research Associate</i>	C. DÜSING

GENERAL STATEMENT

Entrance to graduate work in Geological Sciences may be through the course in Mining Engineering (B.Eng. with good second class standing), through the B.Sc. course in Geological Sciences (Honours Geology, or high second class standing in the General Course), or through the Honours course in Geology and Physics (Geophysics).

GRADUATE STUDIES

Students who have not passed courses in Surveying, Calculus, Electricity and Magnetism (or Advanced General Physics), Geophysics, Physical Chemistry, and Chemical Analysis must do so before being eligible for an advanced degree. They must also present evidence of having done satisfactory field work under competent direction for at least one summer.

REQUIREMENTS FOR THE DEGREES OF MASTER OF SCIENCE

AND DOCTOR OF PHILOSOPHY

Candidates for the degree of Master of Science who have not satisfactorily completed courses equivalent to the undergraduate courses listed below must make up any deficiency and, in addition, take graduate courses A, B, E, and one other as advised. The thesis must conform to the general regulations. (For the degree of M.Sc.(Applied) see below on page 2696.)

Courses for the Degree of Doctor of Philosophy will be selected from the list of graduate courses according to the student's particular interest, on the advice of his director of research. The thesis must conform to the general regulations.

UNDERGRADUATE COURSES

231c. FIELD GEOLOGY.

Two-week field school in May.

Professor Elson

232b. STRUCTURAL GEOLOGY.

Professor Eakins

331a. OPTICAL MINERALOGY.

Professor Stevenson

332. PETROLOGY.

Professor Kranck

341. PALEONTOLOGY.

Professor Clark

This course may be omitted as a requirement for some M.Sc. students.

342a. GEOMORPHOLOGY.

Professor Elson

343a. STRATIGRAPHY.

Professor Clark

344b. MINERALOGRAPHY.

Professor Stevenson

This course may be omitted as a requirement for some M.Sc. students.

345b. CORRELATION.

Professor Stearn

346b. ENGINEERING GEOLOGY.

Professor Elson

441. ORE DEPOSITS.

Professor Gill

443b. EARTH PHYSICS.

Professor Saull

444. GEOLOGY OF NORTH AMERICA.

Professors Elson, Stearn and Eakins

GEOLOGICAL SCIENCES

GRADUATE COURSES

- A. **STRUCTURAL GEOLOGY.** A review of rock structures and their origins followed by a discussion of broader problems relating to deformation of the earth. Training in the solution of practical problems is provided.
2 hours lecture or seminar per week and assigned problems.

Professors Gill and Eakins

- B. **GEOLOGICAL COLLOQUIUM.** Introduction to graduate work in the geological sciences. The general course divisions are: history of geology, contemporary geological research, methods used in geological research, and the presentation of research results.

2 hours lecture or seminar per week and assignments. *Professor Saull*

- C. **APPLIED GEOCHEMISTRY.** The distribution and abundance of the elements are reviewed. Particular emphasis is placed on the movement of economically valuable elements through the exogenic stage of the geochemical cycle. The principles and techniques used in geochemical exploration for minerals and elements are reviewed. The laboratory work provides exercises in various methods of analysis commonly used in applied geochemistry.

2 hours lecture or seminar and three hours laboratory per week.

Professor Webber and Mr. Dehn

- D. **MINING GEOLOGY AND MINERAL EXPLORATION PROBLEMS.** Methods used in the search for economic mineral deposits and in developing and exploiting them are examined. Principles and hypotheses on which these methods are based are reviewed and discussed critically.

Characteristic problems arising in the mineral exploration field are presented. The majority of these problems deal with the interpretations of geological, geophysical, and geochemical data and their inter-relationships. Other problems deal with the planning and execution of mineral exploration programmes in various terrains and climates, and the evaluation of mineral deposits at different stages in their development.

2 hours lecture or seminar per week and assigned problems.

Professors Gill and Eakins

- E. **PETROLOGY.** A presentation of the origin and classification of igneous, sedimentary, and metamorphic rocks, with a discussion of the rock-forming processes and their relationship to mineralization.

2 hours lecture or seminar, 6 hours laboratory per week.

Professor Kranck

- F. **GEOLOGY OF PETROLEUM.** Physical and chemical properties of petroleum and natural gas. Origin of petroleum; migration of petroleum; character

GRADUATE STUDIES

of the reservoir and condition of fluids and gases in it. Structural traps, stratigraphic traps. A brief survey of the petroleum resources of the world.
2 hours lecture or seminar per week. *Professor Stearn*

- G. MINE PETROGRAPHY. The highly altered rocks connected with ore deposits differ essentially from normal rock types and require special petrographic methods. The microscopic identification of such rocks and their minerals is studied in the laboratory in connection with a discussion of the chemical-mineralogical processes through which they have been formed.
2 hours lecture or seminar, 2 hours laboratory per week.

Professor Kranck

- I. GEOLOGY AND PROBLEMS OF THE PRECAMBRIAN. A survey of Precambrian formations throughout the world with special emphasis on the Canadian Shield. Problems of correlation and interpretation are discussed and some attention is given to mineral resources.

1 hour lecture or seminar per week and assigned problems. *Professor Gill*

- J. GEOLOGICAL MAP INTERPRETATION.

1 hour lecture or seminar and assigned problems, 1st term.

Professor Eakins

- K. PHOTOGEOLOGY. The interpretation of air photographs in terms of lithology, structure, surficial deposits, and landforms.

2 hours lecture and seminar and laboratory, second term.

Professor Elson

- L. ADVANCED PETROLOGY AND PETROGRAPHY. Selected topics on recent theoretical and experimental work in petrology.

2 hours lecture or seminar per week.

Professor Kranck

- M. ADVANCED MINERALOGY. Discussion of the chemical and optical variations, and current classifications within the more important mineral groups. The laboratory gives practice in the precise microscopic identification of individual members of these groups using oil immersion, double variation, and universal stage techniques.

4 hours seminar and laboratory per week.

Professor Stevenson

- N. ADVANCED STRATIGRAPHY. A survey of the stratigraphy of North America. The geological evolution of the continent as it is recorded in the Paleozoic, Mesozoic, and Cenozoic sedimentary rocks.

2 hours lecture per week, laboratory work. *Professors Clark and Stearn*

GEOLOGICAL SCIENCES

- O. ADVANCED GEOMORPHOLOGY. Weathering, soils, mass-wasting and the landforms created by wind, water, and ice; classical views and results of modern research. A term paper, preferably based on field work, will be submitted at the end of the year.
2 hours lecture or seminar per week, and assignments. *Professor Elson*
- P. ADVANCED PALEONTOLOGY.
Special problems and assignments. *Professor Clark*
- Q. ADVANCED ECONOMIC GEOLOGY. World distribution of mineral resources; problems of genesis.
1 hour lecture or seminar per week and assigned problems. *Professor Gill*
- S. GEOCHEMISTRY. Treatment of those aspects of thermodynamics, kinetic theory, nuclear physics, and atomic physics that are important in general geochemistry. Current geochemical research and certain instrumental methods are also discussed.
2 hours lecture or seminar per week and assignments. *Professor Saull*
- T. SEDIMENTARY PETROGRAPHY. Classical and recent papers on sedimentary rocks are discussed. Methods of study of sedimentary rocks and a survey of sedimentary rocks in thin sections are included in the laboratory.
2 hours lecture or seminar per week and laboratory. *Professor Stearn*
- U. GLACIAL AND PLEISTOCENE GEOLOGY. Glaciology and the deposition of drift by glaciers; glacial geology and the effects of glacial climates in peripheral areas; changes in level of land and sea; chronology of the Pleistocene.
2 hours lecture or seminar per week and assignments. *Professor Elson*
- Va. and Vb. INSTRUMENTAL ANALYSIS. Application of instrumental methods of analysis to materials of geological interest. Students may register for either Va or Vb or both.
- Va. Optical spectrography, x-ray spectrometry, x-ray diffraction.
3 hours per week, lectures and laboratory, 1st term. *Professor Webber*
- Vb. Spectrophotometry, flame photometry, polarography.
3 hours per week, lectures and laboratory, 1st term. *Mr. Dehn*
- V. INSTRUMENTAL ANALYSIS, Application of instrumental methods of analysis to materials of geological interest. Optical spectrography, x-ray spectrometry, x-ray diffraction, spectrophotometry, flame photometry, polarography.
1 hour lecture, 6 hours laboratory per week.
Professor Webber and Mr. Dehn

GRADUATE STUDIES

W. MINERAL AND ROCK ANALYSIS. The theory of rock analysis with emphasis on the suitability and reliability of different methods used in petrological research.

1 hour lecture and 3 hours laboratory per week.

Mr. Dehn

X. CRYSTALLOGRAPHY (X-Ray Crystallography.)

2 hours lectures and 3 hours laboratory per week.

Professor Frueh

"Seminar on the Pleistocene and Arctic"; see under Geography.

REQUIREMENTS FOR THE DEGREE OF MASTER OF SCIENCE (APPLIED)

The general aim of this two-year course is to train students to be capable of planning and carrying out effective exploration for mineral deposits, and of valuing mineral deposits in various stages of development and production. Such students must be provided with:

(1) a sound theoretical and practical background in the use of modern techniques of exploration,

(2) additional information on the economic and technical considerations which distinguish ore bodies from other mineral deposits,

(3) some insight into the legal and financial aspects of mineral exploration.

During the First year Geology graduates and Mining graduates will take different courses, the result being to bring both groups to a common level. In the Second year, with one minor exception, the work will be the same for the two groups.

Honours Geology Graduates—First Year

Geology A (Structural Geology)

Geology B (Geological Colloquium)

Geology J (Field Methods and Problems)

Geology K (Photogeology)

Mining 762 (Mining Engineering)

Mining 768 (Mineral Dressing)

Mining 782 (Mine Design)

Mining 784 (Mine Finance and Cost Control)

Physics 23 (Electricity and Magnetism)

Physics 23L (Electricity and Magnetism, laboratory)

Physics 24 (Dynamics)

Physics 25 (Statics and Hydrostatics)

Mining Engineering Graduates—First Year

Geology 331a (Optical Mineralogy)

Geology 332 (Petrography, second half only)

Geology 341 (Palaeontology)

GERMAN

Geology 342a (Geomorphology)
Geology 343a (Stratigraphy)
Geology 344b (Mineralography)
Geology 345b (Correlation)
Geology A (Structural Geology)
Geology B (Geological Colloquium)
Geology J (Field Methods and Problems)
Geology K (Photogeology)

Common Second Year

Geology C (Applied Geochemistry)
Geology D (Mining Geology & Mineral Exploration Problems)
Geology F (Geology of Petroleum) *or*
Geology I (Pre-Cambrian)
Geology G (Mine Petrography)
Metallurgy G608 (Metallurgical Economics)
Physics 71 (Applied Geophysics)
Geology 341 (Palaeontology)
Geology 344b (Mineralography) } for Honours Geology graduates only

Candidates obtaining this degree with distinction may be accepted as candidates for the Ph.D. degree.

DEPARTMENT OF GERMAN

Professor

H. S. REISS

Associate Professor

BERTHA MEYER

PREREQUISITES

In order to be admitted to graduate work in German the candidate must have a B.A. degree with Honours in German and at least second class standing from McGill University, or an equivalent B.A. degree from another College or University of recognized standing.

In estimating the quality and contents of the required undergraduate work the following factors must be borne in mind:

1. The candidate must be able to understand and read German. He must be able to speak it fairly fluently and to write it correctly. Lectures and Seminars are conducted in German. The thesis must (save in exceptional circumstances) be written in German, under the supervision of the Department.

GRADUATE STUDIES

2. Prerequisite literary studies include:

(a) A survey of German literature from its beginnings to the 20th century, with emphasis upon developments since Lessing, supplemented by collateral readings (equivalent to two full courses).

(b) A more detailed study of several special fields. In this respect the undergraduate curriculum of McGill University comprises one full course in the history of German drama (one year), one half course in the German lyric, and one half course on Goethe's Faust. Substitutes for these, if found satisfactory, will be honoured by the Department.

(c) A full course in the Middle High German Language and the reading of selected passages from Middle High German Literature (one year).

COURSES FOR THE DEGREE OF MASTER OF ARTS

610. GOETHE
1 meeting weekly. *Professor Reiss*

620. LESSING
1 meeting weekly. *Professor Meyer*

630. GERMAN ROMANTICISM
1 meeting weekly. *Professor Reiss*

650. TWENTIETH CENTURY LITERATURE
1 meeting. *Professor Reiss*

660. MIDDLE HIGH GERMAN LITERATURE AND THE HISTORY OF THE GERMAN LANGUAGE
Professor Reiss

Two courses must be taken: German 610 and either German 620, 630, 650 or 660.

If the candidate has never taken the undergraduate course in Middle High German Language and Literature or its equivalent, he must make up this deficiency.

As a rule the candidate is advised not to attempt to complete the course work and finish the thesis in one winter session. The best arrangement is: Course studies during the winter session, thesis during the summer, graduation in the autumn.

NOTICE TO CANDIDATES FOR THE Ph.D. DEGREE IN OTHER ARTS OR SCIENCE SUBJECTS

Ph.D. candidates who have to pass a reading test in German and who have the equivalent of one college year of German may join German 102 in the Faculty of Arts and Science. This is a full course, meeting twice a week. At first some time will be devoted to teaching the method of translation, the rest of the time to the actual translation of texts chosen

from the various fields of interest. Both the natural sciences and the Arts will be represented in the choice of texts. Interested Ph.D. candidates are advised to take this course during the session preceding the year in which they take their language test.

Required textbook: C. V. Pollard, *The Practical Solution to German Translation* (The University Co.Op., Austin, Texas, 1950).

DEPARTMENT OF HISTORY

<i>Professors</i>	H. N. FIELDHOUSE, <i>Chairman</i> C. C. BAYLEY
<i>Associate Professors</i>	J. I. COOPER M. MLADENOVIC W. S. REID
<i>Assistant Professor</i>	P. ZAGORIN
<i>Lecturer</i>	R. VOGEL

The Honours B.A. in History, which is prerequisite to Graduate work in the subject, may be taken in History alone or in History and another subject. When it is taken in History alone, it requires twelve full courses in European, Canadian, British, and U.S. history, taken in a prescribed sequence, together with certain other approved courses, notably in foreign languages. It also requires the investigation, continued through two years, of a Special Subject which is studied intensively from original sources. Graduate students who enter without this qualification may find it necessary to make good any deficiency in their preparation and the Department is prepared to make this possible.

COURSES FOR THE DEGREE OF MASTER OF ARTS AND DOCTOR OF PHILOSOPHY

Candidates both for the M.A. and for the Ph.D. are required to take Seminar A, and to take the prescribed examination.

A. HISTORICAL METHOD AND THE PHILOSOPHY OF HISTORY

The members of the Department

In addition, the Department is prepared to direct the research of graduate students in the following fields:

British History:

- (a) English history in the later Middle Ages. (Seminar B)
- (b) English and Scottish History in the XVI Century. (Seminar D)
- (c) English history, 1688-1760. (Seminar F)

GRADUATE STUDIES

- (d) English history, 1870-1914. (Seminar G)
- (e) Certain aspects of English economic history (Seminar E)
- (f) Certain aspects of British foreign policy since 1815. (Seminar K)

European History:

- (a) The constitutional development of the Holy Roman Empire in the XIII century. (Seminar C)
- (b) The history of western Europe 1870-1914. (Seminar H)
- (c) Certain aspects of the history of Slavonic Europe (Seminar N)

Canadian History:

- (a) The social and economic history of Montreal, 1867-1900 (Seminar L)
- (b) The history of Lower Canada and Quebec in the XIX Century. (Seminar J)

The Redpath Library is well equipped with printed sources for the periods and subjects mentioned above, and students pursuing research in Canadian History will be required, as occasion arises, to avail themselves of the manuscript resources of the Dominion Archives at Ottawa and the Provincial Archives at Quebec, and of parochial and other records in Montreal and its vicinity.

In the case of the Ph.D. degree, the Department may require candidates to spend one year in research at another university or repository of archives.

The preliminary Ph.D. examination will be replaced by a report from the Department on the general work and ability of each candidate and by a general examination on the historical background of the subject of the thesis; this examination can be taken either at the end of the first year or during the second, as decided by the director of the candidate's studies.

Candidates for the degree of Doctor of Philosophy should consult the Department as to the selection of the two foreign languages in which they propose to be examined, as these must be chosen for their bearing upon the candidate's special field of research.

DEPARTMENT OF HORTICULTURE

(Macdonald College)

<i>Associate Professors</i>	H. R. MURRAY, <i>Chairman</i>
	C. D. TAPER
<i>Assistant Professor</i>	JEAN DAVID
<i>Lecturer</i>	P. M. HARNEY

INVESTIGATIVE MEDICINE

Adequate laboratory and library facilities are available for the courses listed below and for research.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

- A. POMOLOGY
Lectures and colloquium, 3 hours; laboratory, 3 hours. (2 terms)
- B. VEGETABLE CROPS
Lectures and colloquium, 3 hours; laboratory, 3 hours. (2 terms)
- C. FRUIT AND VEGETABLE PRESERVATION
Lectures and colloquium, 3 hours; laboratory, 3 hours. (2 terms)
- D. EXPERIMENTATION. (See Course 60—Department of Agronomy)
- E. PLANT PHYSIOLOGY. (See Course 61—Department of Botany)
- F. ADVANCED GENETICS AND CYTOLOGY. (See Course 43b—Department of Genetics)

REQUIREMENTS FOR THE DEGREE OF MASTER OF SCIENCE

1. A candidate must select either course A or course B or course C. If he selects A or B he must take in addition Agronomy 60 (Experimentation) and at least one further course such as Botany 61 (Plant Physiology) or Genetics 43b (Advanced Genetics and Cytogenetics). If he selects course C he must take in addition Botany 61 (Plant Physiology), Bacteriology 34 (Food Microbiology), and either Chemistry 451 (Chemistry of Foods and Feeding Stuffs) or Chemistry 452 (Advanced Food Analysis).
2. The research problem must be approved by the Departments involved, each candidate being jointly responsible to the Department of Horticulture and to some other Department, such as Botany, Genetics, or Plant Pathology, approved by the Faculty for his case.
3. The candidate must spend one summer in the Department before or during the course, or have its equivalent at some other approved institution.

DEPARTMENT OF INVESTIGATIVE MEDICINE

<i>Professor</i>	J. S. L. BROWNE, <i>Chairman</i>
<i>Assistant Professors</i>	C. J. P. GIROUD N. KALANT
<i>Lecturers</i>	IVAN BECK CLIFFORD CHAPPEL MICHAEL GOLD REUBEN SCHUCHER JANINE STACHENKO RUTH WOLFE

GRADUATE STUDIES

COURSES FOR THE DEGREE OF M.Sc. or Ph.D.

61. Seminar 1 hour weekly throughout the session.
62. ADVANCED ENDOCRINOLOGY
2 hours weekly throughout the session.
63. ADVANCED ENDOCRINOLOGY
2 hours weekly throughout the session.
Courses 62 and 63 are given in alternate years.
Course 62 will be given in 1960-61.
64. CLINICAL ENDOCRINOLOGY
1 hour weekly throughout the session.
65. PHYSIOPATHOLOGY
(to be registered for as Experimental Medicine 65).
1 hour weekly throughout the session.
66. PRINCIPLES AND METHODS OF CLINICAL INVESTIGATION
1 hour weekly throughout the session.
67. SEMINAR. CARDIORESPIRATORY PHYSIOPATHOLOGY (to be registered for as
Exp.Med.67)
1 hour weekly.

GENERAL STATEMENT

The Department offers courses leading to the degrees of M.Sc. and Ph.D. in the Faculty of Graduate Studies and Research and provides research facilities for these students or for other persons proceeding to graduate degrees, diplomas or for other qualified individuals.

The courses and the direction of research in this department are given in close collaboration with the Department of Experimental Medicine and members of either department give lectures and direct the research of graduate students registered in the other.

Students may work either in the Medical Building or in one of a number of hospitals depending on the type of work done (clinical or laboratory) or upon the individual directing the research. Part of the function of the department is the correlation of clinical investigation being done at various hospitals.

Students holding either the M.D. or the B.Sc. degree or its equivalent may enter the department provided that their standing is acceptable.

INSTITUTE OF ISLAMIC STUDIES

Professor W. C. SMITH, *Director of the Institute*

Visiting Professor M. MUJIB ("MUJEEB")

Associate Professors NIYAZI BERKES
KEITH B. CALLARD
FAZLU-R-RAHMAN
H. MUHAMMAD RASJIDI

Assistant Professors CHARLES J. ADAMS
JOHN ALDEN WILLIAMS

Research Associate THOMAS HODGKIN

Librarian W. J. WATSON

The Institute offers courses and undertakes to direct research in preparation for the M.A. and Ph.D. degrees in Islamic Studies. It is planned that the number of Muslims and of Westerners should at all levels be approximately equal. Joint participation, both of students and staff, is a feature of the seminars. Two years of resident study are normally required for the M.A., five for the Ph.D.

The Institute is concerned with Islam as a religion, and with the civilization and society that are founded upon it. Its special emphasis is on the religion as a contemporary and living force; and on the major changes through which the civilization and society are currently going. It would seek such understanding as will enable outsiders to observe those changes intelligently, Muslims to participate in them intelligently, and both to communicate.

Within the total range of modern Muslim development, a special research emphasis on Pakistan and Muslim India is being evolved; including the social sciences as well as the humanities, and bringing together facilities, library, and personnel for a more concentrated and comprehensive study.

Candidates for degrees in Islamic Studies may, with the consent of those departments, be permitted or required to take relevant courses offered by the Departments of History, Economics and Political Science, Philosophy, Comparative Religion, etc. In special cases also these departments recognize participation in relevant courses offered by the Institute as contributing to their own advanced degrees. Such participation by students from other departments is welcomed by the Institute.

The Institute stresses competence in language. At the M.A. level, one Islamic language is required; of Muslim students, one Islamic language other than their own. For doctorate work, all students, Muslim and

GRADUATE STUDIES

Western, must have a reading knowledge of *both* French and German (for access to western scholarship on Islam) *and* two Islamic languages, of which one will normally be Arabic.

(A) RESEARCH SEMINARS: ISLAM IN THE MODERN WORLD

1. ISLAMIC DEVELOPMENTS IN THE MODERN ARAB WORLD

The Wahhabi movement; the Sanusi movement; Jamal al-Din al-Afghani; Muhammad 'Abduh; the Azhar; the modernists; the Ikhwan al-Muslimun. The relation between the Islamic and the Arabist factors in modern nationalism.

2 hours.

2. THE DEVELOPMENT OF SECULARISM IN MODERN TURKEY

An analysis of the transition from Ottoman institutions and ideas to those of contemporary Turkey. Beginning with the eighteenth century background of the early attempts at reform, attention is given to the changes during the *Tanzimat*, "Young Turk", and Republican periods, as a preparation for an understanding of contemporary problems raised by secularization.

2 hours.

Professor Berkes

3. MODERN TRENDS IN ISLAM IN INDIA AND PAKISTAN

Islamic developments in India, from the eighteenth century to the emergence of Pakistan.

2 hours.

Professor Fazlu-r-Rahman

Texts: Shah Waliyullah, *Hujjat Allah al-Balighah*, *Tafhimat Ilahiyah*; Isma'il Shahid, *'Abaqat*; Sir Sayyid Ahmad Khan, *Tafsir*, *Laykharz ka Majmu'ah*; Amir 'Ali, *The Spirit of Islam*; Iqbal, *Reconstruction*, and the poetical works; Abu-l-Kalam Azad, *Tarjumanu-l-Qur'an*; Mawdudi, selected writings; Pakistan constitutional documents.

4. THE DEVELOPMENT OF ISLAM IN INDONESIA

Background of the pre-Islamic period. The arrival of Islam; Arabian and Javanese elements in Indonesian Islamics, and Hukum Adat; Muslim states *versus* the Dutch company; the Padri war. Policy of the Dutch government towards Islam. Recent Islamic movements and political parties (Sarekat Islam, Muhammadiyah, Masjumi, Nahdatul Ulama, Persatuan Islam, M.I.A.I., etc.). Islam and Pantja Sila; the ideological struggle, in the constituent assembly and elsewhere.

2 hours.

Professor Rasjidi

5. ISLAM IN WEST AFRICAN HISTORY

A study of the role of Islam in the development of institutions and ideas in the western and central Sudan, from the 11th century A.D. to the present day. With special reference to (i) the links between this region

and the wider Muslim world, (ii) the sources, both literary and archaeological, for a study of this area, and the lines of inquiry that these open up.

2 hours.

Mr. Hodgkin

8. GOVERNMENT IN THE MODERN MUSLIM WORLD

Muslim political ideas and Muslim institutions of government, and their relevance to the modern world: a comparison of aspects of political development in the twentieth century in the following countries—Tunisia, Egypt, Turkey, Pakistan, Indonesia.

2 hours.

Professor Callard

9. ISLAM IN RECENT HISTORY

A survey of major movements from the eighteenth century to the present, with an endeavour to elicit a common pattern, and to gain insight into the significance of the chief deviations. A conspectus of the Islamic world's response to internal decline in the eighteenth century and external encroachment in the nineteenth; and of the use of freedom, in theory and in practice, in the twentieth. A comparative study of liberal developments, nationalism, etc.

The documentation for this seminar will be an expanded form of the bibliography given for chapter 2 of Smith, *Islam in Modern History*.

2 hours.

Professor Smith

Approximately two of the above seminars will be given each year. In 1960-61, seminar 5 will definitely be offered; the choice of another or others will in part be determined by enrolment.

(B) SEMINARS ON THE HERITAGE OF CLASSICAL ISLAM

11. HISTORICAL DEVELOPMENT OF ISLAMIC THEOLOGY

An endeavour to understand and appreciate, and to make intelligible in contemporary terms, significant attempts of Muslims at different periods in the past to give intellectual expression to their faith. For 1960-61, special reference to the concepts "iman" and "islam" and the relation between them; as discussed in representative classical and mediaeval Muslim writers, and an endeavour to clarify the significance of the discussions. For the modern period, a consideration of the relative role of *iman* and *Islam* in, for instance, Pakistan.

2 hours.

Professor Smith and Staff

12. AL-GHAZZALI

The historical background. His life. His writings; viewed in relation to the context out of which they emerged, and considered also for their potential significance for Muslims to-day.

2 hours.

Professor Fazlu-r-Rahman

GRADUATE STUDIES

13. THE SOCIAL INSTITUTIONS OF ISLAM—(1) Government and State

An introductory consideration of the chief varieties of religious attitude to society in general, and to government in particular; their range in man's religious history generally, and recent attempts (e.g. Max Weber) at systematic presentation and analysis. The situation of Islam in this regard, within the wider context. A survey of the historical evolution of this Islamic view, and of the various patterns and concrete manifestations of Muslim political theory and practice through the centuries. This historical development will be considered chiefly under these headings:

- (i) The first Islamic *Ummah*;
- (ii) The classical period of Islamic history: the 'Abbasi *khilafah* in practice, and the *khilafah* idea;
- (iii) The mediaeval period: the rise of "Sultanism" from the time of the Seljuks, and the organization of authority in the Ottoman, Safawi, and Mughul empires;
- (iv) The rise of modern states and their challenge to Islam: the Turkish secular state; the Persian constitutional monarchy; the Arab states and their political problems; the Islamic state of Pakistan; Islamic state vs. nationalism in Indonesia.

2 hours.

Professor Berkes

14. THE SOCIAL INSTITUTIONS OF ISLAM—(2) Law

25. READINGS IN THE CLASSICAL ARABIC PHILOSOPHERS

A consideration of the development of philosophic thought among the Muslims, and its relation to the late Greek background; with special reference to Ibn Sina (Avicenna). Some of his writing, especially the *Kitab al-Najat*, or al-Ghazzali's *Tahafut*, will be read in Arabic. The role of *falsafah* in classical Islamic culture and thought.

3 hours.

Professor Fazlu-r-Rahman

(C) PAKISTAN AND MUSLIM INDIA

30. ASPECTS OF THE DEVELOPMENT OF MUSLIM CULTURE IN INDIAN HISTORY

Statesmanship and administration. Sufis; the orthodox; other religious thought. Secular scholarship. Literature, Art, Social Life.

2 hours.

Professor Mujib

31. POLITICAL FORCES IN PAKISTAN

A study of the background of the contemporary ferment in the political life of Pakistan. The following topics will be discussed: religion and public life; religio-political parties and movements; political position of

the minorities; major parties and political power; provincial and local factors; poverty and politics; forces favouring and opposing democratic institutions. The 1956 constitution and its 1958 abrogation.

2 hours.

Professor Callard

(D) COURSES ON ISLAM

55. ISLAMIC HISTORY: THE CLASSICAL PERIOD

The origins of the early Islamic state in Arabia, and the Umawi Caliphate. The growth of an Islamic civilization, and the Abbasi Empire. The Fatimis. The rise and ascendancy of the Saljuqs. The Moors in Spain and Africa. The Crusades. The destruction of the 'Abbasi Empire. The fall of Granada.

3 hours.

Professor Williams

56. ISLAMIC HISTORY: THE MEDIAEVAL AND MODERN PERIODS

The Mamluk, Turkish, Persian, and Indian Empires. Islam in Indonesia and North Africa. They decay of the empires. Western penetration. The reconstruction.

Professor Williams

57. INTRODUCTION TO ISLAM

An attempt to present and interpret the faith of Islam in such a way as to clarify how it appears both to an outsider and from within. The scripture, prophet, institutions, and history of the religion, with particular attention to meaning.

3 hours (Half course).

Professor Smith

62. ISLAMIC RESEARCH MATERIALS

An introduction to the research materials used in Islamic studies. Some preliminary discussion of research methods, of the preparation of reports and essays; documentation; transliteration. Particular attention is given to the special reference books and serials used in the field.

1 hour (one term only).

Mr. Watson

(E) LANGUAGE

61. PRINCIPLES OF LINGUISTICS, WITH SPECIAL REFERENCE TO THE LANGUAGES OF THE MUSLIM WORLD

The fundamentals of phonetics, phonemics, morphology, and syntax, employing the various languages of the Muslim World as principal examples. Language and Culture; the interrelations between thought and speech; structural linguistics in its cultural context.

3 hours.

GRADUATE STUDIES

Instruction in individual languages is offered as follows.

Not all courses are available each year. The elementary courses in each case are five hours per week, and do not normally carry graduate credit unless followed by a second year in the same language. Other levels are three hours per week.

- 100. ELEMENTARY ARABIC
- 101. LOWER INTERMEDIATE ARABIC
- 102. HIGHER INTERMEDIATE ARABIC
- 103. ADVANCED ARABIC (ARABIC PHILOSOPHIC OR THEOLOGICAL LITERATURE). This will be related to ISLAMICS 12, 14, or 25 above.
- 110. ELEMENTARY TURKISH
- 111. LOWER INTERMEDIATE TURKISH
- 112. HIGHER INTERMEDIATE TURKISH
- 113. ADVANCED TURKISH (TURKISH HISTORICAL LITERATURE). This will be related to ISLAMICS 2 above.
- 120. ELEMENTARY PERSIAN
- 121. LOWER INTERMEDIATE PERSIAN
- 122. HIGHER INTERMEDIATE PERSIAN
- 123. ADVANCED PERSIAN (PERSIAN RELIGIOUS POETRY)
- 130. ELEMENTARY URDU
- 131. LOWER INTERMEDIATE URDU
- 132. HIGHER INTERMEDIATE URDU
- 133. ADVANCED URDU. This will be related to ISLAMICS 3 above.
- 140. ELEMENTARY MALAY AND INDONESIAN
- 140. ELEMENTARY MALAY AND INDONESIAN
- 141. INTERMEDIATE MALAY AND INDONESIAN
- 142. ADVANCED MALAY AND INDONESIAN. This will be related to ISLAMICS 4 above.

DEPARTMENT OF LAW

Professors

W. C. J. MEREDITH, *Dean*
LOUIS BAUDOUIN
MAXWELL COHEN
F. R. SCOTT

Associate Professors

P. A. CRÉPEAU
J. W. DURNFORD
A. B. ROSEVEAR

Assistant Professor

R. I. CHEFFINS

Lecturers

G. S. CHALLIES
JOSEPH COHEN
ROSS T. CLARKSON
J. G. GAZDIK
GRAHAM GOULD
MARC LAPOINTE
G. E. LE DAIN
J. B. O'CONNOR
G. R. W. OWEN
W. J. McQUILLAN
JAMES A. SODEN
GEORGE T. TAMAKI
P. F. VINEBERG
S. W. WEBER

COURSES FOR THE DEGREE OF MASTER OF CIVIL LAW

Candidates must hold the degree of B.C.L. with at least second class honours from McGill University, or its equivalent. They must select one of the four following departments of study, in which they must follow at least one course throughout a session of residence, and must under supervision prepare an acceptable thesis. The general rules for the Master's degree will apply.

The departments of study, which may not all be offered each year, are

Roman Law

Civil Law

Commercial and Maritime Law

Public Law, including International Law

Students may also be required to follow cognate courses in other Departments of the Faculty.

COURSES FOR THE DEGREE OF MASTER OF LAWS

This degree is offered only in the Institute of Air and Space Law (A. B. Rosevear, Q.C., *Director*). Candidates must hold a degree in Law or be admitted to the Bar, and only those highly qualified or recommended can be accepted; it is desirable that they should possess a working knowledge of both English and French.

The curriculum consists of at least one session's resident study at the Institute. Students whose work is found satisfactory will be permitted to

GRADUATE STUDIES

submit a dissertation on an approved subject within the field of the Institute's work during the following year, even though not then in residence. They must be registered, as resident or non-resident, for the session in which the dissertation is submitted. A very high standard will be required for this degree.

Students will be required to take the four courses listed below, which are prescribed. Others may be selected from courses given in the Law Faculty.

Public International Air Law
Private International Air Law
National Laws relating to Air Transport
The Regulation of Air Transport
 (a) International Public Regulations
 Relating to Safety and Facilitation
 (b) National Regulations

LIBRARY SCHOOL

<i>Associate Professors</i>	VERNON ROSS, <i>Director</i> VIRGINIA E. MURRAY
<i>Assistant Professors</i>	VIOLET COUGHLIN EFFIE ASTBURY
<i>Visiting Lecturers</i>	_____

Requirements for admission are stated on page 2626.

COURSES FOR THE DEGREE OF MASTER OF LIBRARY SCIENCE

In addition to the thesis it will be necessary to take one required and the equivalent of two full elective courses. Electives may not all be available in any one year. Enquiries should be addressed to the Library School office. Limited travel funds for research and attendance at occasional seminars will be available at the discretion of the Director.

REQUIRED

- A. Thesis.
- B. Research methods in library science.

ELECTIVE

- C. Canadiana; archival and historical materials, their care and use.

MATHEMATICS

- D. Documentation; the acquisition and retrieval of research material. (Half course.)
- E. Government documents. (Half course.)
- F. Serials. (Half course.)
- G. Cataloguing and classification; problems and developments.
- H. The library in the community; school, college, and adult education work.
- I. Advanced reference methods and materials. (Half course.)
- S. A special subject may be taken in another Department of the University provided that the candidate has the qualifications normally required for advanced work in that field. Special permission must first be obtained from the Dean, the Director of the School and the Chairman of the Department concerned.

DEPARTMENT OF MATHEMATICS

Professors

E. M. ROSENTHALL, *Chairman*

HERBERT TATE

CHARLES FOX

H. W. E. SCHWERTFEGER

P. R. WALLACE

Associate Professors

M. D. BURROW

IRWIN GUTTMAN

HYMAN KAUFMAN

J. LAMBEK

E. L. LOMON

T. F. MORRIS

R. T. SHARP

C. D. SOLIN

Assistant Professors

G. G. BACH

G. D. FINDLAY

MICHAEL HERSCHORN

SIDNEY KAHANA

N. E. OLER

B. A. RATTRAY

DAVID SUSSMAN

W. A. O'N. WAUGH

GRADUATE STUDIES

COURSES FOR THE DEGREE OF MASTER OF SCIENCE AND DOCTOR OF PHILOSOPHY

Applied Mathematics and Mathematical Physics

661. METHODS OF MATHEMATICAL PHYSICS. Introduction to the equations of mathematical physics, classification of differential equations, integral representations, the solution of problems of mathematical physics involving the Laplace, Poisson, and scalar and vector Helmholtz and wave equations; tensor calculus.

3 hours.

Professor Wallace

Textbook: H. Feshbach and P. M. Morse, *Methods of Theoretical Physics* (Technology Press, M.I.T.).

662. QUANTUM MECHANICS (Physics 62). Introduction to the ideas and methods of quantum theory, with illustrations from the simpler applications in atomic and nuclear physics.

3 hours.

Professor Kahana

Textbooks: D. Bohm, *Quantum Theory* (Prentice-Hall); L. Schiff, *Introductory Quantum Mechanics* (McGraw-Hill).

663. ADVANCED QUANTUM MECHANICS. Methods of advanced quantum theory, including non-relativistic and relativistic scattering processes; Dirac electron theory, interaction of radiation with atomic and nuclear systems, quantum electrodynamics, quantum field theory.

2 hours.

Professor Sharp

References: Fermi, *Elementary Particles* (Yale); Heitler, *Quantum Theory of Radiation* (Oxford); Kramers, *Quantentheorie* (Edwards); Mott and Massey, *Theory of Atomic Collisions* (Oxford); Pauli, *Wellenmechanik* (Edwards); Schiff, *Quantum Mechanics* (McGraw-Hill); Sommerfeld, *Wellenmechanik* (Ungar); Wentzel, *Quantum Theory of Fields* (Interscience).

664. MATHEMATICS OF QUANTUM CHEMISTRY. Atomic structure, chemical bonding, theory of valency, elements of quantum statistical mechanics; for second year graduate students.

2 hours.

Professor Morris

Textbooks: Heitler, *Elementary Wave Mechanics* (Oxford); Glasstone, *Theoretical Chemistry* (Van Nostrand).

References: Pauling and Wilson, *Introduction to Quantum Mechanics* (McGraw-Hill); Dushman, *Elements of Quantum Mechanics* (Wiley); Gurney, *Elementary Quantum Mechanics* (Cambridge); Mott, *Outline*

of Wave Mechanics (Cambridge); Penney, Quantum Theory of Valency (Methuen); Eyring, Kimball, and Walter, Quantum Chemistry (Wiley).

665. STATISTICAL MECHANICS AND KINETIC THEORY OF MATTER (Physics 65). Classical and quantum statistical mechanics, with applications; statistical theories of the gaseous, liquid, and solid states, including kinetic theory of gases, Debye theory of specific heats, dielectrics, and magnetism, theory of strongly degenerate gases, Planck radiation law, electron theory of metals, Bose-Einstein condensation theory of liquid helium II.

2 hours.

Professor Morris

Textbook: Lindsay, Physical Statistics (Wiley).

References: Mayer and Mayer, Statistical Mechanics (Wiley); Fowler, Statistical Mechanics (Cambridge); Tolman, Statistical Mechanics (Oxford); Schrödinger, Statistical Thermodynamics (Cambridge); Rice, Statistical Mechanics (Constable); Kennard, Kinetic Theory of Gases (McGraw-Hill); Loeb, Kinetic Theory of Gases (McGraw-Hill).

666. RELATIVITY. The Lorentz transformation, mechanics in special theory of relativity, relativistic formulation of electromagnetic theory. Motion of particles in the electromagnetic field, the physics of relativistic particles, with reference to high-energy accelerators and cosmic ray phenomena. spinor calculus, the Dirac theory of the electron, relativistic invariance in quantum theory. Other relativistic fields, e.g. meson.

2 hours.

Professor Morris

References: MacCrea, Relativity Physics (Methuen); Bergmann, Introduction to the Theory of Relativity (Prentice-Hall); Heitler, Quantum Theory of Radiation (Oxford).

667. FLUID DYNAMICS. Equations of motion. Conformal transformations and complex potential theory. Airfoil theory. Vortex theory in two and three dimensions. Theory of viscous flow. Theory of boundary layer.

3 hours.

Professor Fox

References: Milne-Thompson, Hydrodynamics (Macmillan); Streeter, Fluid Dynamics (McGraw-Hill).

668. ELECTROMAGNETIC THEORY. General properties of the electromagnetic field, relativistic formulation of the theory. Fields and radiation produced by relativistic particles, with application to the angular and frequency distribution from particles in high energy accelerators. Interaction of radiation and charged particles with matter, energy loss, bremsstrahlung, Weiszacker-Williams method. Radiation reaction and damping, classical

GRADUATE STUDIES

divergence difficulties. Radiation by finite systems, multipole expansion, angular momentum of radiation, semi-classical treatment of radiation from quantized systems.

2 hours.

Professor Lomon

References: Heitler, Quantum Theory of Radiation (Oxford); Landau and Lifshitz, Classical Theory of Fields (Addison-Wesley); Stratton, Electromagnetic Theory (McGraw-Hill).

669. SEMINAR IN APPLIED MATHEMATICS. Graduate students proceeding to an advanced degree with specialization in Applied Mathematics will be expected to attend and to participate in this seminar, which will be devoted to discussions of current research topics.

Professors Kahana, Morris, Lomon, and Wallace

670. THEORY OF THE SOLID STATE. Motion of electrons in crystals; energy bands and Brillouin Zones. Theory of metals. Theories of electric and thermal conductivity, Hall effect, magnetic susceptibility and specific heat of crystals. Types of binding. Electronic motion in ionic crystals; induced conductivity in insulators. Semi-conductors; electron emission and surface contact problems.

2 hours.

Professor Wallace

References: Mott and Jones, Properties of Metals and Alloys (Oxford), Seitz, Modern Theory of Solids (McGraw-Hill); Seitz and Turnbull, Solid State Physics (I-V) (Interscience); Kittel, Introduction to Solid State Physics (2nd Ed.) (Wiley); A. H. Wilson, Theory of Metals (Cambridge); Slater, Reports of the Solid State and Molecular Theory Group (M.I.T.).

671. GROUP THEORETICAL METHODS IN QUANTUM MECHANICS. Introduction to the ideas and methods of group theory with applications to quantum mechanics; rotation, permutation, Lorentz groups; classification of atomic and molecular spectra; theory of nuclear supermultiplets.

2 hours.

Professor Morris

References: S. Bhagavantam and T. Venkatarayudu, Theory of Groups and its Application to Physical Problems (Waltair); H. Weyl, The Theory of Groups and Quantum Mechanics (Methuen); Wigner, Gruppentheorie (Edwards); Van der Waerden, Die gruppentheoretischen Methoden in der Quantenmechanik (Springer).

672. THEORETICAL NUCLEAR PHYSICS. The quantum mechanics of nuclear processes, including nuclear ground state properties, nuclear forces, structure of nuclei, beta and gamma emission, nuclear reactions at low and high energies.

2 hours.

Professor Lomon

References: Bethe, *Elementary Nuclear Theory* (Wiley); Fermi, *Nuclear Physics* (Chicago); Evans, *The Nucleus* (McGraw-Hill); Mayer and Jensen, *Introduction to the Theory of Nuclear Shell Structure* (Wiley); Rosenfeld, *Nuclear Forces* (Interscience).

673. MATHEMATICAL THEORY OF ELECTRICITY AND MAGNETISM. Theory of electrostatic charge and potential. Problems in two and three dimensional charge distribution. Application of Gauss, Green, and Stokes theorems. Electric currents and problems in networks. Magnetism and magnetic vector potentials. Problems in three dimensional magnetic distributions. Electromagnetic induction. Maxwell's field equations. Electromagnetic waves. Theory of the Retarded Potential. The postulates of special relativity, Lorentz transformations, field of a moving charge.

2 hours.

Professor Fox

Text: William R. Smythe, *Static and Dynamic Electricity* (McGraw-Hill).

674. MATHEMATICAL THEORY OF ELASTICITY. Components of stress and strain. Equilibrium and compatibility equations, problems with boundary conditions. The use of polar co-ordinates and the complex variable in two dimensional problems. Strain-energy method and the principle of virtual work. Torsion of bars, shafts, and tubes. The use of polarized light, soap films, and membranes in solving problems of stress. The propagation of waves in elastic media. Waves of distation and distortion. Applications to problems of seismology.

2 hours.

Professor Fox

Texts: S. Timoshenko, *Theory of Elasticity* (McGraw-Hill); A. E. H. Love, *A Treatise on the Mathematical Theory of Elasticity* (Cambridge University Press).

675. THEORETICAL HIGH ENERGY PHYSICS. The interpretation of pion-nucleon scattering, pion photoproduction and related topics in terms of the properties of the elementary particles and their interaction. The application of field theory and dispersion relations to the detailed results of the above interactions. The strange particles, their classification according to isotopic spin, associated production, and their interactions. Weak decays and the conservation laws.

2 hours.

Professor Lomon

References: Bethe and de Hoffman, *Mesons and Fields II* (Row Peterson, 1955); *High Energy Nuclear Physics, Proceedings of the (recent) Annual Rochester Conferences* (Interscience).

GRADUATE STUDIES

Algebra and Theory of Numbers

771. ALGEBRA. Simple properties of groups, modules with operators, algebras, fields, polynomials, factorization of polynomials, algebraic equations, finite extensions, splitting fields, Galois theory, solution of algebraic equations by radicals, solvable groups; Noether rings, valuation theory, p-adic numbers, ideal theory, cyclotomic fields, Fermat's theorem.
3 hours. *Professor Rosenthal*
Texts: Jacobson, Theory of Rings; Van der Waerden, Modern Algebra.
772. THEORY OF GROUPS. Axioms, homomorphisms, isomorphism theorems, Jordan-Hölder-Schreier theorem, Krull-Schmidt theorem, abelian groups, free groups, solvable and nilpotent groups. Matrix representations, Maschke's theorem, theory of characters, modular representations.
3 hours. *Professor Findlay*
Texts: P. Hall, Theory of Groups (Macmillan); Kurosh, Theory of Groups; Zassenhaus, Theory of Groups.
- 772b. REPRESENTATION THEORY. General problems of representation theory, representation spaces, invariant spaces, reduction and decomposition. Theorems of Maschke-Wintner, Schur on full reducibility, structure of the group algebra for any characteristic, Wedderburn structure theorems, application to finite groups, structure of finite near fields, induced and produced representation, cohomology theory.
3 hours, second term. *Professor ———*
Prerequisite: Mathematics 772a.
Text: Van der Waerden, Modern Algebra.
- 773a. LATTICE THEORY AND UNIVERSAL ALGEBRA. Partially ordered sets, modular lattices, lattice ordered semigroups, theorems on normal series and direct decomposition for general algebraic systems.
3 hours, first term. *Professor Lambek*
- 773b. THEORY OF RINGS. Infinite abelian groups, rings and modules, tensor product, structure and representation of rings, rings of quotients, multiplicative ideal theory.
3 hours, second term. *Professor Findlay*
- 774a. FREE GROUPS. The course will include the material in Kurosh Vol. II, and also representation of free groups in free associative rings, the derivative, theorems on the lower central series, the study and application of free Lie Rings.
3 hours, first term. *Professor Burrow*
- 774b. LIE GROUPS. Topological groups, differentiable manifolds, Lie groups, classical groups, local isomorphism, one parameter subgroups, canonical

MATHEMATICS

coordinates, correspondence between Lie groups and Lie algebras, exterior differential forms.

3 hours, second term.

Professor Rattray

Text: Chevalley, Lie Groups.

775. SEMINAR IN ALGEBRA. Topics selected to suit the class.

Professor Schwerdtfeger

776. ANALYTIC NUMBER THEORY. Arithmetical functions, elementary theory of the distribution of primes; proof of the prime number theorem, Dirichlet's theorem on number of primes in arithmetic progression; asymptotic and convergent formulas for the partition of n .

3 hours, one term.

Professor Rosenthal

777. GEOMETRY OF NUMBERS. Minkowski's theorems on convex bodies; successive minima of gauge functions and their consequences; linear inequalities including Kronecker's general approximation theorem and products of linear forms; extrema of quadratic forms.

3 hours, one term.

Professor Rosenthal

778. SEMINAR IN THEORY OF NUMBERS. Selected topics.

Analysis

780. ANALYSIS. Cardinal and ordinal numbers, the maximal principle; measure and integration, convergence theorems, absolute continuity, Lebesgue-Stieltjes measure and differentiation, product measures; Banach spaces, linear operators, dual spaces with examples, the Hahn-Banach theorem, Hilbert space.

3 hours.

Professor Burrow

781. COMPLEX VARIABLE. Cauchy's theorem, expansion in series and products, singularities, analytic continuation. Additional topics selected by the instructor.

3 hours, one term.

Professor Schwerdtfeger

782. CALCULUS OF VARIATIONS. The first variation and the Eulerian characteristic equation, the second variation, Legendre's test and the theory of conjugate points; isoperimetrical problems; integrals with variable end points and Hilbert's integrals. Strong variations and the Weierstrassian E function. Hamilton's principle and the principle of least action.

3 hours.

Professor Fox

783. FOURIER TRANSFORMS. Fourier, Laplace and Mellin transforms, applications to probability; generalized Fourier transforms, Watson and Bochner transforms; integral and dual integral equations.

3 hours, one term.

Professor Fox

GRADUATE STUDIES

784. ANALYSIS ON GROUPS. Locally compact groups, Haar measure, group algebra, character group, Fourier transforms.
3 hours, one term. *Professors Burrow and Raltray*
785. BANACH ALGEBRAS. Topics selected from: the representation and structure of commutative Banach algebras, algebras with involution, H^* algebras, von Neumann algebras; Krein-Milman theorem and applications.
3 hours, one term. *Professor _____*
786. SPECTRAL THEORY. Linear operators on Hilbert space; the spectral theorem and applications.
3 hours, one term. *Professor _____*
789. ORDINARY DIFFERENTIAL EQUATIONS. Existence and uniqueness theorems; approximation methods, systems of equations; boundary and eigenvalue problems; stability theory.
3 hours, one term. *Professor Kaufman*
References: W. Hurewicz, Ordinary Differential Equations in the Real Domain (Brown University, 1943); E. A. Coddington and N. Levinson, Theory of Ordinary Differential Equations (McGraw-Hill, 1955).
790. PARTIAL DIFFERENTIAL EQUATIONS. Introduction to equations of elliptic, parabolic, and hyperbolic type; singular solutions, Green's function; application of Fourier series and integrals; variational methods.
3 hours, one term. *Professor Kaufman*
References: I. N. Sneddon, Elements of Partial Differential Equations; Courant-Hilbert, Methods of Mathematical Physics, Vol. II.
791. SPECIAL FUNCTIONS
3 hours, one term. *Professor Rosenthal*
- 792a. FOURIER SERIES AND APPROXIMATION. Approximation in function spaces; orthogonal sets of functions and general Fourier series; orthogonal polynomials; trigonometrical Fourier series; almost periodic functions.
3 hours, first term. *Professor Schwerdfeger*
References: W. W. Rogosinski, Fourier Series; N. I. Achieser, Theory of Approximation.
- 792b. INTRODUCTION TO INTEGRAL EQUATIONS. Resumé of finite dimensional linear algebra; types of linear integral equations; Hilbert's theory; Schmidt's theory of the symmetric kernel; applications to boundary value problems of linear differential equations and to almost periodic functions.
3 hours, second term. *Professor Schwerdfeger*

References: Courant and Hilbert, *Methods of Mathematical Physics*; F. Riesz and B. Sz. Nagy, *Leçons d'analyse fonctionnelle*.

793. SEMINAR IN ANALYSIS. Selected topics in analysis to suit the needs of the students.

Geometry and Topology

892. DIFFERENTIAL GEOMETRY. Classical local geometry of curves and surfaces. In particular: first and second fundamental forms, curvature of plane sections, mean and Gaussian curvature, geodesics. Global theory of curves and surfaces, Riemannian manifolds, tensor algebra, covariant differentiation, curvature tensors.

3 hours, one term.

Professor Rattray

893. ANALYTIC AND SYNTHETIC PROJECTIVE GEOMETRY. This course will follow a classical presentation. Some of the topics emphasized are: perspectivity and projectivity, projective theorems relating to the conics, groups of linear transformations, correlations and polarities.

3 hours, one term.

Professor Tate

894. ALGEBRAIC GEOMETRY. Quadratic surfaces, Grassman manifolds, higher curves; valuations, divisors; Riemann-Roch theorem, applications; De Rham theorem; harmonic integrals; multiplicity and local uniformisations; Riemann surfaces.

3 hours.

Professor _____

References: C. Chevalley, *Introduction to the Theory of Algebraic Functions of One Variable*; Van der Waerden, *Einführung in die algebraische Geometrie*; Hodge and Pedoe, *Algebraic Geometry I, II and III*.

895. TOPOLOGY. Topological spaces and continuous functions; product, quotient and function spaces; compactness; uniform and metric spaces; Jordan curve theorem; dimension theory; fundamental group and covering spaces.

3 hours.

Professor Rattray

References: N. Bourbaki, *Topologie générale* (Hermann); J. L. Kelley, *General Topology* (Van Nostrand); P. S. Aleksandrov, *Combinatorial Topology*, vol. 1 (Graylock).

896. SEMINAR IN GEOMETRY AND TOPOLOGY. Topics to suit the class.

Probability and Statistics

900. SEMINAR IN STATISTICS. Topics selected from advanced probability and statistics.

2 hours.

Professor Waugh

GRADUATE STUDIES

901. THE DESIGN OF EXPERIMENTS. Principles of Experimental design, least squares aspects of the Anov; randomization; analysis of randomized blocks, Latin squares and incomplete block designs; factorial and split-plot experiments, confounding. The construction of designs: Orthogonal sets of Latin squares, balanced and partially balanced incomplete block designs, the general symmetrical factorial design.

2 hours.

Professor ———

References: O. Kempthorne, The Design and Analysis of Experiments; Cochran and Cox, Experimental Designs

902. THEORY OF GAMES AND LINEAR PROGRAMMING. Zero-sum two-person games; minimax theorem. Infinite games; n-person games. Duality theory of linear programming; computational methods including the simplex technique. Applications and recent developments.

3 hours.

Professor H. Kaufman

History and Foundations

903. STATISTICAL INFERENCES. Tests of significance I; tests of goodness of fit and allied tests; theory of estimation; parametric estimation; the Cramer-Rao inequality; tests of significance II; the Neyman-Pearson theory; non-parametric methods.

2 hours.

Professor Guttman

1001. MATHEMATICAL LOGIC. A formal treatment of logical systems such as the propositional calculus, quantification theory, formalized arithmetic and set theory, the calculus of lambda conversion, with emphasis on questions of consistency and completeness. The theory of recursive or computable functions is developed in detail and applied to the construction of undecidable statements in arithmetic, the theorems of Gödel and Church, the word problem in semigroups.

3 hours.

Professor Lambek

Reference: Kleene, Introduction to Metamathematics (Van Nostrand).

1002. MATHEMATICAL LINGUISTICS. Information theory, Zipf's law, mathematical syntax, mechanical translation of languages.

3 hours, one term.

Professor Lambek

General Remarks

1. The following undergraduate mathematical courses may, in special circumstances, be taken for graduate credit:

Listed in the Arts and Science Announcement—

331 (Statics and Dynamics); 333 (Advanced Calculus); 334 (Differential Equations); 433 (Advanced Mathematical Statistics); 434 (Probability); 441 (Mathematical Physics); 442 (Algebra); 443 (Numerical

Analysis); 444 (Analysis); 446a (Fluid Dynamics); 446b (Mathematical Theory of Electricity and Magnetism); 448b (Advanced Dynamics); 449b (Tensor Analysis).

1260 (Differential Equations); 1269 (Operational Calculus and Matrix Algebra); 1291 (Introduction to Probability and Statistics).

2. The attention of students taking the course for M.A. or M.Sc. is called to the University requirements described on pages 2622, 2623 and 2624 of this Announcement. Students seeking an M.A. or M.Sc. degree are required to pass in three approved full courses in mathematics and to participate in any assigned seminars, and to present an acceptable thesis. They may be required to submit to an examination on the subject matter of the thesis and the general background of the field of mathematics with which the thesis is concerned.

3. Attention is called to the evening courses leading to the degree of Master of Engineering, which are described in this Announcement under the Department of Electrical Engineering, and to other evening courses.

4. Owing to the increasing impact of Pure and Applied Mathematics upon a large variety of fields of study, attention is particularly called to the possibility of arranging a suitable programme of mathematical courses to meet the individual needs of graduate students majoring in fields other than those listed above.

5. The attention of students who contemplate working for a Ph.D. degree with Mathematics as a major subject is called to the University regulations on pages 2627-2630 of this Announcement. Properly qualified students may be admitted to candidacy for the Ph.D. in Pure Mathematics or in Applied Mathematics by the Graduate Committee of the Department with the approval of the Dean of the Faculty of Graduate Studies and Research. Except in very exceptional cases, students would be admitted to candidacy only after having completed the work for the Master's degree at McGill or elsewhere with distinction. The Ph.D. degree is awarded on the basis of the attainment of a good knowledge of mathematics in general and the writing of a thesis which definitely advances the subject which it treats.

Detailed information regarding departmental requirements is contained in a bulletin, which is issued by the Department. This can be obtained on application to the Chairman of the Department. The courses offered during the 1960-61 session will be selected from numbers 661 to 1001 and will be announced at the beginning of the session. The following courses were given during the 1959-60 session: 661, 662, 663, 666, 667, 668, 669, 670, 672, 675, 771, 772, 775, 778, 780, 783, 892, 893, 895b, 900, 903.

GRADUATE STUDIES

DEPARTMENT OF MECHANICAL ENGINEERING

Professors

WILLIAM BRUCE, *Chairman*

D. L. MORDELL

B. G. NEWMAN

Associate Professors

A. R. EDIS

J. W. STACHIEWICZ

J. W. SWITHENBANK

A. L. THOMPSON

J. H. T. WU

Lecturer

S. S. HYDER

Advanced courses and laboratory facilities are offered for graduate study leading to the Diploma in Mechanical Engineering, to the Master of Engineering (M.Eng.) and the Doctor of Philosophy (Ph.D.) degrees in Mechanical Engineering, or to the Master of Science (M.Sc.) degree in Fluid Mechanics.

Graduate studies and research are at present being conducted in the fields of propulsion, fluid mechanics, heat transfer, dynamics of machines and mechanical design. Current problems deal with such matters as combustion and equilibrium flow in ram-jets for hypersonic propulsion systems; testing of high temperature materials for hypersonic propulsion systems; characteristics of a low speed wind tunnel of special design; jet flow and deflection of jets by neighbouring boundaries and cross streams; two dimensional analogue of a ground effect machine; water analogue for supersonic diffuser efficiency; cavitation erosion; properties of thin liquid films in moving gas streams; heat transfer characteristics of porous materials, of finned surfaces and of the shell side of heat exchangers; dynamics of thin whirling shafts.

ADMISSION

The general rules of the Faculty apply. Candidates who come from other institutions are expected to have an academic background equivalent to the undergraduate curriculum in mechanical engineering at McGill or to make up any deficiencies in a qualifying year. The minimum academic standard for admission is normally a high second class standing. Applicants are requested to state in as much detail as possible their particular field of interest for graduate study.

REQUIREMENTS FOR THE GRADUATE DIPLOMA IN MECHANICAL ENGINEERING

A Graduate Diploma in fluid mechanics, aeronautics, propulsion, heat transfer, or mechanical design is offered for the successful completion of five courses at graduate level. Registration, courses and standards are

MECHANICAL ENGINEERING

the same as for the M.Eng. degree but there is no residence or thesis requirement. Courses are to be selected in consultation with the department. The various course groupings are listed below.

REQUIREMENTS FOR THE DEGREE MASTER OF ENGINEERING

Students are usually required to take courses G 504 and G 505, or their equivalent, together with the other courses which are necessary for progress in their selected field of research. Normally three other courses are required and are selected in consultation with the candidate's director of research. Selections are made from those listed below, from courses offered by other engineering departments or from cognate courses given in other faculties. A thesis describing the candidate's research is to be submitted in accordance with the rules of the Faculty and is the major requirement for the degree.

REQUIREMENTS FOR THE MASTER OF SCIENCE DEGREE IN FLUID MECHANICS

This degree is offered to enable holders of a Bachelor's degree (honours level) in mathematics or science to undertake research in fluid mechanics along engineering lines. The minimum academic standard for admission is normally a high second class standing. Courses are selected in consultation with the candidate's director of research. A thesis is to be submitted in accordance with the rules of the Faculty and is the major requirement for the degree.

REQUIREMENTS FOR THE PH.D. DEGREE IN MECHANICAL ENGINEERING

Candidates normally register for the Master's degree in the first instance. However in some cases where the research work is proceeding very satisfactorily (or where the equivalent of the M.Eng. degree has been completed at another university), candidates may be permitted to proceed directly to the Ph.D. degree without submitting a Master's thesis, as long as they have satisfied the course requirements for the Master's degree. Ph.D. candidates are permitted to take other courses and must fulfill the language requirements as outlined in the general rules of the Faculty.

COURSES FOR HIGHER DEGREES

G504 SEMINAR

All candidates for higher degrees are required to participate and to deliver a paper dealing with their particular research.

G505 APPLIED MATHEMATICS

Beginning with a review of differential equations the course develops these mathematical techniques essential for the treatment of problems

GRADUATE STUDIES

in vibration, elasticity, heat flow etc. which are of particular interest to mechanical engineers.

2 hours.

Professor Fox
(Department of Mathematics)

Text: L. A. Pipes, Applied Mathematics for Engineers and Physicists, 2nd edition (McGraw-Hill).

G506 APPLICATIONS OF ADVANCED MATHEMATICS TO ENGINEERING DESIGN

Applications of Fourier series and transforms, vector and tensor analysis, partial differential equations, and approximate methods to problems in stress analysis, fluid dynamics, heat transfer, chemical diffusion, and vibration; elementary numerical analysis for use in electronic computers,

Prerequisite: Course G 505 or equivalent.

Text: A Bronwell, Advanced Mathematics in Physics and Engineering (McGraw-Hill).

References: Irving and Mullineux, Mathematics in Physics and Engineering (Academic Press); L. A. Pipes, Applied Mathematics for Engineers and Physicists; Margenau and Murphy, The Mathematics of Physics and Chemistry (Van Nostrand); Reddick and Miller, Advanced Mathematics for Engineers (Wiley); Current engineering and scientific literature.

2 hours.

Mr. S. S. Hyder

G510 ADVANCED MECHANICAL DESIGN

This course is concerned mainly with the analysis of design problems. The more complex aspects of stress and strain due to external and body forces and temperature effects are treated for certain special cases. Methods of approach are emphasized particularly.

References: Timoshenko, Strength of Materials Part II (McGraw-Hill); Durelli, Phillips and Tsao, Analysis of Stress and Strain (McGraw-Hill).

2 hours.

Professor Edis

G511 AIRCRAFT STRUCTURES

General examination and calculation of properties of shell construction and redundant frames; application to actual wings, fuselages etc.; modern developments in materials and in fabrication methods such as plastics and metal bonding; special problems such as landing gear energy, absorption strength, "shimmy" and its avoidance; engine mounting design; pressure cabins.

Text: Miles and Nevill, Airplane Structure (Wiley).

Reference: Bruhn, Analysis and Design of Aircraft Structures.

2 hours.

Professor Edis

MECHANICAL ENGINEERING

G518 GAS TURBINE DESIGN

Problems and design calculations dealing with gas turbines and their components.

2 hours.

Professor Mordell

G519 GAS TURBINES

Introduction to the general theory of gas turbines and their major components, compressors, turbines, combustion chambers and heat exchangers. Special study is made of the problems of performance and control.

Text: Sorensen, Gas Turbines (Ronald Press).

References: Shepherd, An Introduction to the Gas Turbine (Constable); Current Literature.

2 hours.

Professor Mordell

G520 HEAT TRANSFER

A study of more advanced topics in steady and transient heat flow by conduction, convection and radiation. Electrical analogue methods and new developments in heat transfer techniques will also be discussed.

References: Eckert and Drake, Transfer of Heat and Mass (McGraw-Hill); Schneider, Conduction (Addison and Wesley).

2 hours.

Professors Stachiewicz and Swithenbank

G521 NUCLEAR ENGINEERING

The application of elementary nuclear physics is used to design a simple heterogeneous reflected nuclear reactor up to the point of determining the critical size and the optimum fuel rod arrangement for stated conditions.

References: Gladstone, Principles of Nuclear Reactor Engineering (Van Nostrand); Stephenson, Introduction to Nuclear Engineering (McGraw-Hill).

2 hours.

Professor Edis

G522 COMBUSTION

Ignition delay, flame speed and stability, scale effects, and experimental techniques in the combustion of gases, liquids and solids.

Prerequisite: Chemical Kinetics 982 or equivalent.

References: D. B. Spalding, Some Fundamentals in Combustion (Butterworth); Lewis and Von Elbe, Combustion, Flames and Explosions (Academic Press).

1 hour.

Professor Thompson

GRADUATE STUDIES

G524 PROCESS HEAT TRANSFER

The design of industrial heat transfer equipment with special attention to the design of shell-and-tube heat exchangers, coolers, heaters, condensers, etc. for oil refineries, power plants and other industrial processes; also, the design of air and gas heat exchangers for gas turbines. The main stress will be on the thermal aspects of the design but mechanical features will also be discussed.

Text: Standards of Tubular Exchanger Manufacturer's Association.

References: McAdams, Heat Transmission (McGraw-Hill); Kern, Process Heat Transfer (McGraw-Hill).

2 hours.

Professor Stachiewicz

G530 AERODYNAMICS: IDEAL FLUID THEORY

Fundamentals—Kinematics; equations of motion, vorticity and circulation; solutions of Laplace's equation; conformal mapping; steady and unsteady motion round simple bodies.

Application—Two-dimensional aerofoils; airscrews and ducted fans; low and high aspect ratio wings; wind tunnel interference. The course will be supplemented by demonstration and experiment in the laboratory.

Text: Clauert, Aerofoil and Airscrew Theory (Cambridge University Press).

References: Milne Thompson, Theoretical Hydrodynamics (Macmillan); Milne Thompson, Theoretical Aerodynamics (Macmillan); Lamb, Hydrodynamics (Dover); Vallentine, Applied Hydrodynamics (Butterworth); Robinson and Laurmann, Wind Theory (Cambridge University Press); Abbott and Von Doenhoff, Theory of Wing Sections (McGraw-Hill).

2 hours.

Professor Newman

G531 AERODYNAMICS: VISCOUS FLOW AND BOUNDARY-LAYER THEORY

Navier-Stokes equations; exact solutions for laminar incompressible flow; laminar boundary-layer theory, exact and approximate methods; transition; turbulent boundary-layer theory, laws of wall and wake, approximate methods; extension to compressible flows; practical considerations including boundary-layer control, aerodynamic heating, shock-wave boundary-layer interaction and methods of measurement.

The course will be supplemented by demonstration and experiment in the laboratory.

Text: Schlichting, Boundary-Layer Theory (Pergamon Press).

MECHANICAL ENGINEERING

References: Townsend, Structure of Turbulent Shear Flow (Cambridge University Press); Goldstein, Modern Developments in Fluid Dynamics, Vols. I and II (Oxford University Press); Shapiro, Compressible Fluid Flow, Vol. I (Ronald Press).

2 hours.

Professor Newman

G532 HIGH SPEED AERODYNAMICS

Two-dimensional shock waves and expansions; two-dimensional supersonic aerofoil theory; unsteady one-dimensional flow; method of characteristics; hodograph methods; conical flow theory; finite wing theory; subsonic, transonic and supersonic similarity rules; experimental methods.

Text: Shapiro, Compressible Fluid Flow, Vol. I (Ronald Press).

References: Shapiro, Compressible Fluid Flow, Vol. II (Ronald Press); Liepmann and Roshko, Elements of Gas Dynamics (Wiley); Courant and Friedrichs, Supersonic Flow and Shock Waves (Interscience); Ferri, Elements of Aerodynamics of Supersonic Flow (Macmillan).

2 hours.

Professor Wu

G533 HYPERSONIC FLOW

Definitions, real gas effects, hypersonic similarity rule, Newtonian theory, nozzle flow, normal and oblique shock relations, viscous flow, heat transfer, rarefied gas flow, research techniques.

2 hours.

Professor Swithenbank

Course Groupings for the Graduate Diploma in Mechanical Engineering.

Five courses at graduate level are required. Those marked * are essential, with two others selected from options which may vary from time to time. Whenever possible these courses will be made available in the Department of University Extension. All courses may not necessarily be given every year.

1. FLUID MECHANICS.

G505 Applied Mathematics

G506 Applications of Advanced Mathematics to Engineering Design

*G530 Ideal Fluid Theory

*G531 Viscous Flow and Boundary Layer Theory

*G532 High Speed Aerodynamics

G533 Hypersonic Flow

62 Fluid Mechanics and Particle Dynamics
(Dept. of Chemical Engineering).

2. AERONAUTICS.

G505 Applied Mathematics

GRADUATE STUDIES

G506 Applications of Advanced Mathematics to Engineering Design

*G511 Aircraft Structures

*G530 Ideal Fluid Theory

*G531 Viscous Flow and Boundary Layer Theory

G532 High Speed Aerodynamics

G533 Hypersonic Flow
Stability and Control

3. PROPULSION.

G505 Applied Mathematics

G506 Applications of Advanced Mathematics to Engineering Design

*G518 Gas Turbine Design

*G519 Gas Turbines

G520 Heat Transfer

G521 Nuclear Engineering

G522 Combustion

G531 Viscous Flow and Boundary Layer Theory

*G533 Hypersonic Flow

4. HEAT TRANSFER.

G505 Applied Mathematics

G506 Applications of Advanced Mathematics to Engineering Design

*G520 Heat Transfer

G521 Nuclear Engineering

G522 Combustion

*G524 Process Heat Transfer

*G531 Viscous Flow and Boundary Layer Theory

B20 Automatic Process Control (Dept. of Electrical Engineering).

5. MECHANICAL DESIGN.

G505 Applied Mathematics

*G506 Applications of Advanced Mathematics to Engineering Design

*G510 Advanced Mechanical Design

G521 Nuclear Engineering

*G524 Process Heat Transfer

G403 Feedback Control Systems

G421 Principles of Servomechanisms

B20 Automatic Process Control

} Department of
Electrical Engineering

METALLURGICAL ENGINEERING

Other mathematics courses which may be taken for credit are:
Operational Calculus and Matrix Algebra
Complex Variables with Engineering Applications.

DEPARTMENT OF METALLURGICAL ENGINEERING

Professor

J. U. MAC^EWAN, *Chairman*

Associate Professor

H. H. YATES

Adequate laboratory and library facilities are available for the courses listed below and for research.

All applicants for admission to advanced studies in the Department of Metallurgical Engineering are required to have fundamental training in Physical Chemistry and Chemical Thermodynamics, and applications of this training to metallurgical processes.

G601. PROPERTIES AND STRUCTURES OF METALS. Atomic structure; electron theory of metals in the solid state; theory of plastic deformation of metals applied to single crystals; phase transformation; recrystallization; creep; assigned reports.

2 hours per week.

Professor

G602. HYDROMETALLURGY. The application of physical and chemical principles to hydrometallurgical processes.

2 hours per week.

Professor Yates

G603. UNIT PROCESSES IN EXTRACTIVE METALLURGY. Theoretical studies of selected processes for the smelting and refining of metals. Engineering applications of these processes will be considered. Reports will be assigned.

2 hours per week.

Professor MacEwan

G608. PROCESS METALLURGY. This course is for candidates for the degree of Master of Science (Applied) in Geology. Extractive metallurgical processes with emphasis on the utilization and evaluation of ores and concentrates.

2 hours per week.

Professor MacEwan

G605. METALLURGICAL THESIS. A thesis is to be submitted on research conducted in one of the following fields:

- (a) Hydrometallurgy
- (b) Pyrometallurgy
- (c) Physical Metallurgy

GRADUATE STUDIES

- A. Requirements for the degree of Master of Engineering in Metallurgical Engineering
- Candidates for this degree must hold a recognized degree in Metallurgical Engineering or a related field as noted in the following paragraph, and complete the course requirements noted below.

Applicants holding a recognized Engineering degree in some related field can proceed to the Master's degree in Metallurgical Engineering by taking a qualifying year before being registered as degree candidates in the Faculty of Graduate Studies and Research. Students in this category must have their records appraised by the Department and a programme of studies outlined for the qualifying year.

Course Requirements

1. Two of the three graduate courses in Metallurgy: G601, G602 and G603.
2. One course in Mathematics as required by the Department of Metallurgical Engineering.
3. Metallurgical Thesis, G605.

- B. Requirements for the degree of Master of Science in Metallurgy

Candidates for this degree must have had previous training in the basic sciences of chemistry or physics or both and hold a Bachelor of Science or equivalent degree. Students who hold a Bachelor of Science degree in Metallurgy or its equivalent may be able to proceed to the Master's degree in one year.

Students whose training is deficient will be required to take courses in Metallurgy and in cognate subjects in Chemistry and Physics during a qualifying year before being registered as degree candidates in the Faculty of Graduate Studies and Research.

Applicants for admission will have their academic records appraised by the Department of Metallurgy and a programme of studies will be outlined.

Course Requirements

The course requirements are the same as outlined for the degree of Master of Engineering.

DEPARTMENT OF METEOROLOGY

Professors

J. S. MARSHALL, *Chairman*
F. K. HARE

Associate Professors

R. H. DOUGLAS
SVENN ORVIG

Assistant Professor

B. W. BOVILLE

MINING ENGINEERING

It is hoped to announce new courses in September 1960 that will permit candidates with the degree of B.Sc. with honours in mathematics and physics to proceed, through these courses along with research and a thesis, to the degree of M.Sc. in meteorology. Candidates with some post-graduate training or experience in meteorology may receive credit for this.

Students who possess adequate qualifications in meteorology may register for the Ph.D. in that subject. The ordinary requirements of the Ph.D. concerning thesis and preliminary examinations will apply.

Research facilities for the Arctic Meteorology Research Group are located in this department; those of the Stormy Weather Group in the Department of Physics.

In addition to new courses mentioned above and the following graduate course, attention is drawn to courses 52 (Cloud Physics) and 53 (Weather Radar) in the Department of Physics.

61. DYNAMIC CLIMATOLOGY WITH SPECIAL REFERENCE TO THE POLAR CLIMATES

Dynamic climatology as the empirical study of the general atmospheric circulation. Regional circulation over polar regions. Techniques of analysis.

The Staff

DEPARTMENT OF MINING ENGINEERING

Professor R. G. K. MORRISON, *Chairman*

Associate Professor TALAT SALMAN

Lecturer L. L. SIROIS

Library and laboratory facilities are available for postgraduate studies and research.

The requirements for the M.Eng. degree in Mining Engineering include lecture courses, research work and thesis.

Students whose qualifications are considered to be below the B.Eng. standard will be required to pass courses covering the deficiency during a qualifying year before being registered as degree candidates.

The thesis must be submitted on a suitable subject, normally under one of the following broad headings: (1) Mineral dressing; (2) Rock mechanics; (3) Mining methods; (4) Mechanization of mines; (5) Mineral economics; (6) Industrial relations and management.

For the M.Eng. degree a minimum of three full courses is normally required in addition to the thesis and considerable latitude is permitted in their selection. The following are optional courses and other graduate

GRADUATE STUDIES

and undergraduate courses in different departments of the University may be required or optional depending on the subject selected for a thesis.

784. MINE FINANCE AND COST CONTROL. A course given to fourth year Mining Engineering students, but available to postgraduates who have not taken it. Refer to the Announcement of the Faculty of Engineering.
2 lectures per week, second term. *Mr. R. S. Boire*

- G700. ORGANIZATION AND MANAGEMENT OF MINES. A reading and discussion course.
2 hours per week. *Professor Morrison*

- G701. MINE VENTILATION. A course of study and investigation conducted with the co-operation of the Department of Mechanical Engineering. Concerns the supply and flow of fresh air to mines, dust suppression, and the thermodynamics of deep-level ventilation.
2 hours per week, session.

Department of Mechanical Engineering and Professor Morrison

- G702. COLLECTIVE BARGAINING SEMINAR. Refer to the Announcement of the Faculty of Arts and Science (Economics 442).
3 hours per week, session. *Professor H. D. Woods*

- G703. MINERAL DRESSING. An advanced course covering—Amalgamation, Cyanidation, Gravity Concentration, Flotation, Roasting, and Leaching.
1 lecture and 6 hours laboratory per week, session. *Professor Salman*

- G704. MINERAL DRESSING. An advanced course covering the application of mechanics to gravity concentration, of physical chemistry to flotation, of colloid chemistry to flotation and thickening and of elasticity and plasticity to comminution.
2 hours per week, session. *Professor Salman*

- G705. ROCK MECHANICS AND MINE DESIGN. A study of the effect of rock properties and earth stresses on the layout of mines.
2 hours per week, session. *Professor Morrison*

DEPARTMENT OF NEUROLOGY AND NEUROSURGERY

Chairman

WILDER PENFIELD

Professors

THEODORE RASMUSSEN

HERBERT JASPER

(In charge of graduate research)

NEUROLOGY AND NEUROSURGERY

K. A. C. ELLIOTT
(*Biochemistry*)

WILLIAM FEINDEL
FRANCIS McNAUGHTON

Associate Professors

ARTHUR ELVIDGE
DONALD McRAE

Assistant Professors

GILLES BERTRAND
J. B. R. COSGROVE
HAROLD ELLIOTT
PETER GLOOR
DONALD LLOYD-SMITH
GORDON MATHIESON
PRESTON ROBB

Candidates for graduate degrees must first meet the general qualifications and requirements for admission to the Graduate School (for M.Sc. see page 2622, for Ph.D. see page 2627). Before registration each candidate must have a thesis plan accepted by the director of his research and by the professor in charge of graduate studies. Qualification for and permission to enter courses must be approved by (1) director of candidate's research, (2) course supervisor, and (3) professor in charge of graduate studies. In some cases a qualifying year will be required before admission as a candidate for a degree. Candidates for the Master's degree are required to pass satisfactory examinations in at least two out of four of the credit courses listed below, i.e., courses A, B, E, F, and G-1. Candidates for a Ph.D. degree are expected to pass four of these five credit courses. Under exceptional circumstances, other courses or qualifications may be substituted for credit at the discretion of the professor in charge of graduate studies. Attendance of at least one year at courses C, D, F-2, and G-2 is expected of candidates for the Ph.D. Attendance at two at least of these four courses is expected of candidates for the M.Sc.

Others may attend any or all courses, at the discretion of the supervisors, without registration in the Graduate School. Registration is obligatory if graduate credit is to be given.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE AND DOCTOR OF PHILOSOPHY

A. NEUROANATOMY.

1. Participation as demonstrators in course Neurology and Neurosurgery 2A "Anatomy and Physiology of the Central Nervous System"—This course is listed under Anatomy and under Physiology as Course 2.
2. Graduate seminar in coordination with course B—"Seminar in Neurophysiology"—Mondays 4:30 to 6:00 p.m.

GRADUATE STUDIES

3. Preparation of a term paper on a neuroanatomical subject as arranged.
4. Advanced neuroanatomy for a selected group.

Professor McNaughton and Staff

B. NEUROPHYSIOLOGY.

1. Students are required to attend and pass a term examination in course Neurology and Neurosurgery 2A "Anatomy and Physiology of the Central Nervous System."
2. Weekly graduate seminars and demonstrations in neurophysiology and neurochemistry, coordinated with course A-2 and course E—December through May. Mondays 4:30 to 6:00 p.m.
3. Under exceptional circumstances, a paper on a neurophysiological subject may be written with special arrangements as a substitute for B-1.

Professors Jasper, Elliott and Gloor

C. COLLOQUIUM IN CLINICAL NEUROLOGY

1 hour weekly, clinics and lectures, Wednesdays, 5 p.m. M.N.I. (9 months).
Staff and Visiting Lecturers

D. SEIZURE MECHANISMS AND CEREBRAL LOCALIZATION: CLINICAL, ELECTRO-ENCEPHALOGRAPHIC, AND ROENTGENOGRAPHIC CONFERENCE

M.N.I. 1½ hours weekly (9 months). Tuesdays 4:00 to 5:30 p.m.

Professors Penfield, Rasmussen, Jasper, McNaughton and McRae

E. OUTLINE OF NEUROCHEMISTRY

Instruction in neurochemistry in addition to that provided in Course B-2 may be obtained by special arrangement. *Professor Elliott*

F. NEUROPATHOLOGY

1. Six months laboratory work in medical or surgical neuropathology.
Professors Mathieson and Bertrand
2. Conference in neuropathology, Friday, 4-5 p.m.
Professors Mathieson and Bertrand
3. Introduction to Histopathology of the Nervous System.
A short basic course for a limited number. By special arrangement
With Professor Mathieson.

For graduate credit, courses Nos. 1 and 2 are required. Under special circumstances written and/or oral examinations may be substituted for Nos. 1 and 2 for students who have taken course No. 3.

G. NEUROLOGICAL RADIOLOGY

1. Lecture demonstrations (3 months beginning in September), Mondays 4:30 to 6:00 p.m.
2. Colloquium, 1 hour weekly (9 months), Mondays 9:00 a.m.

Professor McRae

DEPARTMENT OF NUTRITION

(Macdonald College)

<i>Professor</i>	E. W. CRAMPTON, <i>Chairman</i>
<i>Associate Professor</i>	L. E. LLOYD
<i>Lecturer</i>	E. DONEFER

Adequate laboratory and library facilities are available for research in a number of branches of Applied Nutrition. The particular research problem which may be undertaken will depend in part on whether the candidate holds a B.Sc., B.Sc.(Agr.), or B.Sc.(H.Ec.) degree. Ordinarily graduates in Agriculture associate themselves with problems related to the nutrition of farm animals, while graduates in Household Science usually undertake projects applicable to human nutrition.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

- A. EXPERIMENTAL TECHNIQUE. Design and conduct of nutritional studies involving experimental animals or subjects; statistical analysis and the interpretation of data from such studies; preparation of technical reports of nutrition research. This course includes lectures on specific topics and the actual conduct and interpretation of one or more research projects, one of which will form the basis of the thesis presented toward the degree sought.

In addition to completion of course A above and the submission of an acceptable thesis, candidates for the Master of Science degree in Nutrition must register for and complete Biochemistry 45, Department of Biochemistry, in Montreal. Students must also attend and participate in Department seminars.

Home Economics graduates may, by special arrangement, also elect advanced work in the School of Household Science.

In individual cases, cognate courses may be added to the above requirements on the advice of the director of research.

DEPARTMENT OF PARASITOLOGY

(Macdonald College)

<i>Professor and Director</i>	T. W. M. CAMERON
<i>Associate Professors</i>	D. FAIRBAIRN M. LAIRD

GRADUATE STUDIES

Assistant Professors

R. P. HARPUR

G. A. SCHAD

C. E. TANNER

Research Associates

G. LUBINSKY

E. MEEROVITCH

G. A. WEBSTER

Candidates for both the M.Sc. and Ph.D. are required to possess the equivalent of an honours degree in biological science or a degree in veterinary or human medicine. Their curricula should have included general invertebrate Zoology (including Entomology), Organic Chemistry, and Biochemistry; elementary Physiology is also desirable.

Adequate laboratory and library facilities are available at the Institute of Parasitology for the courses listed below and for research.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

Courses A, B, and C are required for this degree in addition to a thesis, the subject to be selected by the candidate with the approval of the Department.

A, B, and C comprise the main courses, but further courses may be chosen, depending on the research problem selected and the candidate's previous training.

COURSES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Candidates must possess the equivalent of the M.Sc. (Parasitology), McGill. Candidates may (with the approval of the Department) study cognate subjects (such as Nutrition, Biochemistry, Medical Entomology, etc.). Such course work must be completed before the commencement of the final year of study.

A. A SYSTEMATIC STUDY OF THE ANIMAL PARASITES OF MAN, DOMESTIC, AND ECONOMIC ANIMALS

5 hours.

Professors Cameron and Laird

B. PRACTICAL PARASITOLOGY

12 hours.

Professor Cameron and Staff

C. FIELD WORK AND SEMINARS. Parasitological surveys. Collections in the field. Methods of control.

Staff

DEPARTMENT OF PATHOLOGY

Professor

G. C. McMILLAN, *Chairman*

Associate Professors

W. H. MATHEWS

PATHOLOGY

A. C. RITCHIE
R. W. WIGLESWORTH

Assistant Professors

D. S. KAHN
W. PIROZYNSKI
H. SHELDON

The Department offers adequate laboratory and library facilities in the Pathological Institute for morphological or experimental research and for the courses listed below leading to the degrees of Master of Science and Doctor of Philosophy in Pathology.

QUALIFICATION FOR ADMISSION

Candidates for graduate degrees in Pathology must hold the degree of Doctor of Medicine or its equivalent and must have attained high standing in the courses leading to this degree, especially in the preclinical scientific subjects.

Candidates whose previous graduate training in Pathology is judged to be inadequate, will be required to spend a qualifying year of work in the Department before proceeding to a graduate degree.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE AND DOCTOR OF PHILOSOPHY

A. RECENT ADVANCES IN PATHOLOGY

Lectures on selected subjects in Pathology.

Professor McMillan and Staff

B. COLLOQUIUM. Demonstration and discussion of current surgical and autopsy material from the routine pathological services of the Pathological Institute.

2 hours throughout the session.

Professor McMillan and Staff

C. CONFERENCES. Conferences will be held at regular intervals with graduate students for the purpose of guiding their reading and investigative work and for the discussion of special problems arising from their research.

D. COGNATE SUBJECTS. Each student will be required to take certain courses in cognate subjects, the selection of which will depend upon the student's previous training and on the character of the research problem to be undertaken.

Any candidate for a graduate degree may be required to attend the undergraduate course in General Pathology and pass a comprehensive examination in this subject.

A candidate for the degree of Master of Science must take courses A, B, and C, and at least one cognate course. The remainder of his time

GRADUATE STUDIES

is to be devoted to morphological or experimental research. The quality of the student's investigative work as embodied in his thesis will be the main consideration in recommending him for this degree.

For the degree of Doctor of Philosophy the candidate must take courses A, B, and C, throughout each year of study in addition to his research. Any cognate subjects required must be completed before the end of the second year.

The quality of the research work as embodied in the Ph.D. thesis will be the main consideration in the award of this degree.

DEPARTMENT OF PHARMACOLOGY

<i>Professor</i>	K. I. MELVILLE, <i>Chairman</i>
<i>Associate Professor</i>	D. R. WOOD
<i>Assistant Professors</i>	B. G. BENFEY N. R. EADE

Adequate laboratory facilities are available for the courses listed below and for research.

QUALIFICATIONS FOR ADMISSION

Candidates for higher degrees in Pharmacology must hold an M.D. or B.Sc. degree, and must have attained a high standing in the courses in Pharmacology 1A and 1B, as given to medical students at McGill (or equivalent courses elsewhere). Candidates with a B.Sc. degree and with suitable preparation in Biochemistry and Physiology, are admitted to these undergraduate medical courses, during their qualifying year. See the Announcement of the Faculty of Medicine.

On application to the Chairman of the Department, a limited number of undergraduates pursuing the Honours B.Sc. curriculum in Biochemistry or Physiology, or with otherwise suitable preparation, may be admitted to these prerequisite courses in their Fourth year.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

2A. ADVANCED PHARMACOLOGY

1 lecture per week. This course deals with biological assays, actions of drugs on cellular mechanisms and relationships between chemical structure and pharmacological action.

2B. ADVANCED LABORATORY TECHNIQUES IN PHARMACOLOGY

Laboratory exercises and demonstrations, correlated with 2A.

PHILOSOPHY

COURSES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

3A. RECENT ADVANCES IN PHARMACOLOGY

1 hour weekly. Lectures on selected topics.

3B. SEMINAR

1 hour during the session, correlated with 3A, and dealing with problems related to the research interests of the graduate students and staff.

For each of the higher degrees, candidates may also be required to take courses in cognate subjects, as necessary.

The main interests of the Department at present concern various problems of cardiovascular and gastrointestinal pharmacology and the actions of drugs affecting the autonomic nervous system.

DEPARTMENT OF PHILOSOPHY

Professors

J. W. MILLER, *Chairman*

T. G. HENDERSON

R. KLIBANSKY

CECIL CURRIE

Associate Professor

Assistant Professor

ALASTAIR MCKINNON

Lecturers

A. GOMBAY

R. S. MCCALL

J. D. ROSS

COURSES FOR THE DEGREE OF MASTER OF ARTS

*340. SEMINAR IN PHILOSOPHY. 2 hours.

The Philosophy of History.

Professor Currie

*400. MORAL AND POLITICAL PHILOSOPHY. 2 hours.

First term: Advanced Ethics.

Professor Klibansky

Second term: Philosophy of Politics.

Professor Klibansky

*410. PROBLEMS OF LOGIC AND METAPHYSICS. 2 hours.

First term: Logic, Epistemology and Metaphysics.

Professor Miller

Second term: The Metaphysics of Whitehead.

Professor Henderson

*420. THE PHILOSOPHY OF KANT

2 hours.

Professor Currie

*440. SEMINAR IN PHILOSOPHY. 2 hours.

1959-1960. Issues in Contemporary Philosophy.

Reading: *to be announced.*

The Staff

*May also be taken by honours undergraduates.

GRADUATE STUDIES

Seminar courses will be offered in the special fields in which candidates are studying for their degrees.

Before entering upon his course of graduate studies, the student must have devoted two full years to Philosophy, and his competence in the subject should embrace the following:

- (1) A general knowledge of the history of Greek philosophy and of modern philosophy.
- (2) A systematic knowledge of the main philosophical disciplines: logic, ethics, epistemology, and metaphysics.
- (3) A special knowledge of at least three of the great European thinkers.

Applicants for graduate study may be required to submit to an examination in order to determine their competence as above defined.

In special cases students may take relevant courses offered by the Institute of Islamic Studies.

DEPARTMENT OF PHYSICS

Professors

G. A. WOONTON, *Chairman*

R. E. BELL

J. S. FOSTER

J. S. MARSHALL

E. R. POUNDER

Associate Professors

K. L. S. GUNN

W. F. HITSCHFELD

W. M. MARTIN

ANNA I. MCPHERSON

F. R. TERROUX

Assistant Professors

J. A. CARRUTHERS

C. R. CROWELL

M. P. LANGLEBEN

J. F. MATHISON

E. J. STANSBURY

R. STEVENSON

Lecturer

W. M. TELFORD

Research Associate

A. L. THOMPSON

Adequate laboratory and library facilities are available for the courses listed below and for research in any of the main branches of physics. Equipment for investigations in nuclear physics, electron physics, meteorological physics, ice physics, electromagnetic radiation, electrical

measurements, spectroscopy, heat, and geophysics have been specially developed. An electron microscope and X-Ray Diffraction apparatus are available for collaboration in regard to problems in Chemistry and Biology. A well-equipped Radiation Laboratory for nuclear physics provides space for staff and over twenty graduate students. The hundred Mev McGill Synchro-cyclotron is housed in this laboratory. The Eaton Electronics Laboratory provides facilities for research and graduate training in the various branches of solid state and of electron physics and in it there is also accommodation for over twenty graduate students, in addition to staff. The Macdonald Physics Laboratory continues to provide facilities and space for research by staff and by another group of from ten to fifteen graduate students. Upon request, the Secretary of the Department will provide prospective graduate students with a pamphlet on the Physics Department.

With the approval of the Chairman of this Department, qualified graduate students in physics may apply to take some of their required courses, and to undertake research, at Macdonald College, the remainder of their courses being taken at McGill University in Montreal. For the Ph.D. in Meteorology, see under the Department of Geography.

COURSES AVAILABLE WHEN PHYSICS IS CHOSEN AS A COGNATE SUBJECT

Courses 33, 34, 36, 41, 42, 43b, 44, 48 are undergraduate honours courses prerequisite to graduate work in Physics; but they are open to graduate students (1) choosing Physics as a cognate subject, or (2) completing their entrance qualifications for graduate work in Physics.

33. ELECTRONIC CIRCUITS AND INSTRUMENTS (Half course). Theory and application of electronic devices with emphasis on the instruments used in scientific research.

1 hour; laboratory (33L), 2 hours.

Professor Crowell

Reference books: Terman, *Electronic and Radio Engineering*, 4th Ed. (McGraw-Hill); Cruft Laboratory Staff, *Electronic Circuits and Tubes* (McGraw-Hill); Valley and Wallman, *Vacuum Tube Amplifiers* (McGraw-Hill); Chance et al., *Waveforms* (McGraw-Hill).

34. HEAT AND THERMODYNAMICS. Thermodynamic systems and variables. The zeroth, first and second laws. The thermodynamics of: heat engines; two-phase systems, including a statement of the third law; thermoelectricity; Joule-Thomson effect; thermionic emission; thermal radiation. Kinetic theory of gases, introduction to statistical mechanics.

2 hours per week.

Professor Hilschfeld

GRADUATE STUDIES

Text: Sears, Introduction to Heat, Thermodynamics, Kinetic Theory and Statistical Mechanics (Addison-Wesley).

References: Zemansky, Heat and Thermodynamics (McGraw-Hill); Hoare, Textbook of Thermodynamics (Longmans Green); Sir James Jeans, Kinetic Theory of Gases (Cambridge University Press), Worthing and Halliday, Heat (Wiley).

36. **ADVANCED LIGHT.** The essentials of geometrical and physical optics with advanced laboratory work. Electromagnetic theory, interference, diffraction, polarization, simple spectrum analysis, determination of fine structure of spectral lines, Zeeman effect, theory and use of optical apparatus (e.g., glass and quartz spectrographs, Lummer plates, interferometers, and polarimeters).

First term: 2 hours; Second term: 1 hour; Laboratory (36L). 3 hours (session).

Professor McPherson

Reference books: Morgan, Introduction to Geometrical and Physical Optics (McGraw-Hill); Robertson, Physical Optics (Van Nostrand); Wood, Physical Optics (Macmillan); Jenkins and White, Fundamentals of Optics, (McGraw-Hill); Hardy and Perrin, The Principles of Optics (McGraw-Hill).

41. **MATHEMATICAL PHYSICS.** Vibration problems, eigenfunctions and eigenvalues, sound waves, scattering problems. Fourier transforms and application to problems of heat conduction and diffusion. Introduction to statistical mechanics and wave mechanics.

3 hours.

Professor R. T. Sharp

Reference books: Margenau and Murphy, The Mathematics of Physics and Chemistry (McGraw-Hill); Coulson, Waves (Oliver and Boyd); Lindsay, Concepts and Methods of Theoretical Physics (Van Nostrand); Menzel, Mathematical Physics (Prentice-Hall); Joos, Theoretical Physics (Blackie); Sommerfeld, Partial Differential Equations (Academic Press); Born, Atomic Physics (Blackie).

42. **ELECTROMAGNETIC THEORY** (Half course). Field theory; electrostatics; Laplace's equation; dielectrics; magnetic fields of currents; magnetic materials; electromagnetic induction and Maxwell's equations; electromagnetic waves and energy flow; scalar and vector potentials. Application of these fundamental ideas is made to some of the following topics: skin effect; propagation of waves in conducting media; propagation of guided waves; the electromagnetic foundation of the optical laws of reflection and refraction; diffraction; radiation from antennae.

First term: 2 hours; second term: 1 hour.

Professor Stevenson

Textbook: Slater and Frank, Electromagnetism (McGraw-Hill).

Reference book: Ramo and Whinnery, Fields and Waves in Modern Radio (Wiley).

- 43b ATOMIC AND MOLECULAR STRUCTURE (Fac. Eng. 1382) (Half course). A concise and connected description of selected topics including recent investigations. Spectra and structure of one electron system; helium; multiplet structure and electron-spin; energy levels according to Dirac; Pauli principle and periodic classification; Zeeman and Stark effects; Lamb-Rutherford experiment; hyperfine structure in hydrogen and radio-astronomy; molecular spectra and structure; calculation of ionization potentials; energy level shifts; simple molecular structures; nuclear spins and quadrupole moments.

Second term: 2 hours; laboratory (43bL = 44bL), 3 hours.

Professor Mathison and Dr. Telford

Prerequisite: Physics 35.

Reference books: Herzberg, *Atomic Spectra and Atomic Structure* (Dover); White, *Introduction to Atomic Spectra* (McGraw-Hill); Series, *Spectrum of Atomic Hydrogen* (O.U.P.); Herzberg, *Molecular Spectra and Molecular Structure*, vol. 1 and 2 (Van Nostrand); Leighton, *Principles of Modern Physics* (McGraw-Hill).

- 44a. RADIOACTIVITY AND INTRODUCTORY NUCLEAR PHYSICS (Fac. Eng. 1392a) (Half course). The phenomena of radioactive disintegration and the laws of transformation of successive products; nature and properties of radiations; methods of detection and measurement; mechanisms of absorption and scattering; neutrons, positrons and the constitution of nuclei; artificial disintegration processes; fission and fusion.

First term: 2 hours; laboratory (44L), 3 hours.

Professor Terroux and Demonstrators

Prerequisite: Physics 35a.

Reference books: Rutherford, Chadwick and Ellis, *Radiations from Radioactive Substances* (C.U.P.); Cork, *Radioactivity and Nuclear Physics* (Van Nostrand); Lapp and Andrews, *Nuclear Radiation Physics* (Prentice-Hall); Semat, *Introduction to Atomic and Nuclear Physics* (Rinehart); Kaplan, *Nuclear Physics* (Addison-Wesley).

- 44b. PARTICLES AND QUANTA OF MODERN PHYSICS (Fac. Eng. 1392b) (Half course). X-rays and γ -rays; sources, detection, wave-length and energy measurements; optical properties, X-ray spectra and atomic energy levels; bremsstrahlung, absorption and scattering; high energy physics; cosmic rays, behaviour of very high energy particles and photons; experimental methods; the elementary particles; high energy accelerators.

Second term: 2 hours; laboratory (44bL = 43bL), 3 hours.

Professor Martin and Dr. Telford

GRADUATE STUDIES

Note: Either half of this course, 44a or 44b may be taken by qualified students as a half course.

Prerequisite: Physics 35a.

Reference books: Leighton, *Principles of Modern Physics* (McGraw-Hill); Peaslee, *Elements of Atomic Physics* (Prentice-Hall); Blackwood, Osgood and Ruark, *An Outline of Atomic Physics* (Wiley); White, *Introduction to Atomic Spectra* (McGraw-Hill); Evans, *The Atomic Nucleus* (McGraw-Hill).

- 47a. APPLIED GEOPHYSICS (Half course). An introduction to geophysical methods of prospecting and of investigating subsurface structure. The theories, the uses, and the limitations of various magnetic, electrical, gravitational, and seismic methods are explained and compared. The practical operation of the instruments is reviewed, and actual field results are obtained and analysed. When possible, students will be given some practical experience in the field. Laboratory facilities are available.

First term: 2 hours.

Dr. Telford

Texts: Eve and Keys, *Applied Geophysics*, 4th ed. (Cambridge Univ. Press); Dobrin, *Introduction to Geophysical Prospecting* (McGraw-Hill).

Reference books: Heiland, *Geophysical Exploration* (Prentice-Hall); Jakosky, *Exploration Geophysics* (Trija Publishing Co.).

48. ELECTRICAL MEASUREMENTS (Half course). A. C. networks and circuit theorems; dipole antenna theory; theory and application of transmission lines, including use of the Smith chart; theory and application of waveguides, including cavity resonators; theoretical and practical aspects of noise including Johnson noise, shot noise and performance of amplifier systems.

1 hour.

Prerequisites: Physics 23, 33; Mathematics 332 or 333.

Texts: von Hippel, *Dielectrics and Waves* (Wiley); Scott, *The Physics of Electricity and Magnetism* (Wiley); Michels, *Electrical Measurements and their Applications* (Van Nostrand).

49. ADVANCED PHYSICS LABORATORY (Full course). Impedance measurements from audio frequencies to centimetre wavelengths; dielectric dispersion; magnetic measurements with application of the Hall effect and nuclear magnetic resonance; thermionic emission; selected topics in thermodynamics.

3 hours.

Prerequisites: Physics 23, 33; Mathematics 332 or 333.

Text: Michels, *Electrical Measurements and their application* (Van Nostrand).

PHYSICS

COURSES FOR STUDENTS PROCEEDING TO THE DEGREES OF M.A., M.Sc., OR Ph.D. IN PHYSICS

52. CLOUD PHYSICS. The development and precipitation of clouds in the atmosphere.
1 hour.
Professor Marshall
References: Mason, Cloud Physics (Oxford U.P.).
53. WEATHER RADAR. The study of atmospheric processes by radar. Weather radar design and operation.
1 hour.
Professor Gunn
References: Marshall, Hitschfeld and Gunn, Contribution in Advances in Geophysics, Vol. II (Academic Press); Battan, Radar Meteorology (Chicago U.P.).
60. DEVELOPMENTS IN NUCLEAR PHYSICS.
Selected topics from among recent advances in nuclear and particle physics, covering experiments, their interpretation, and their background in nuclear models. The students will be expected to participate in the presentation.
2 hours.
Professor Bell
(No assigned text-book.)
62. QUANTUM MECHANICS (Mathematics 662). Introduction to the ideas and methods of quantum theory, with illustrations from the simpler applications in atomic and nuclear physics.
2 hours.
Professor Pounder
Note: Students proceeding to a higher degree in Mathematics are given an additional hour per week. This may be attended by any student taking the course.
Textbooks: Schiff, Introductory Quantum Mechanics (McGraw-Hill); Bohm, Quantum Theory (Prentice-Hall).
63. ADVANCED ELECTRICITY AND MAGNETISM. Advanced theory and problems concerning: Electrostatics—images, transformations, coefficients, properties of dielectrics. Current electricity—conduction in infinite solids, circuit theory, loci, non-linear elements, transients, applications of Heaviside's operational methods, Laplace transforms, determinants and matrices; power machinery and transformers. Electronic devices and circuits. Conduction in gases, associated devices and circuits. Magnetic effects and circuits. Elementary electromechanics; servomechanism fundamentals.
2 hours.

GRADUATE STUDIES

64. THERMODYNAMICS. Starting from a review of the foundations of thermodynamics according to Carathéodory, the relation of thermodynamics to statistical mechanics is developed. Thermostatistics is then applied to problems in information theory, and to provide an introduction to the quantum theory. Thermodynamics of irreversible processes. Radiation: theory and applications in the atmosphere.

First term: 2 hours.

Professor Hitschfeld

General references: Chandrasekhar, Stellar Structure (Chicago U.P.); Hercus, Thermodynamics and Statistical Mechanics (Melbourne U.P.); Landé, Foundations of Quantum Theory (Yale U.P.); Bergmann, Heat and Quanta (Prentice-Hall); De Groot, Thermodynamics of Irreversible Processes (Interscience Publishers, New York); Johnson, Physical Meteorology (Technology Press); papers by Brillouin.

65. STATISTICAL MECHANICS AND KINETIC THEORY OF MATTER (Mathematics 665). A course in classical and quantum statistical mechanics with selected applications; statistical theories of the gaseous, liquid, and solid states.

Reference books: Mayer and Mayer, Statistical Mechanics (Wiley); Lindsay, Physical Statistics (Wiley); Fowler, Statistical Mechanics (C.U.P.); Schrödinger, Statistical Thermodynamics (C.U.P.); Rice, Statistical Mechanics (Constable, London); Kennard, Kinetic Theory of Gases (McGraw-Hill); Loeb, Kinetic Theory of Gases (McGraw-Hill).

2 hours.

Professor R. T. Sharp

Note: Course 65 will be given in alternate sessions, 1959-60, etc.

66. PHYSICAL ELECTRONICS. In this course are discussed a group of topics related to current researches in physical electronics: Selected topics in Electrostatics, Magnetostatics; Physics of crystals, diffraction of waves and particles, lattice vibrations; the theory of Dielectrics; the nature of Magnetism; Nuclear Magnetic Resonance; Paramagnetic Resonance; Conduction in Solids and in Semiconductors; Thermionic emission, Photo-electric emission.

2 hours.

Professor Wootton

Reference Books: Stratton, Electromagnetic Theory (McGraw Hill); Bleaney and Bleaney, Electricity and Magnetism (Oxford University Press); Slater, Quantum Theory of Matter (McGraw-Hill); Slater, Chemical Physics (McGraw-Hill); Andrews, Nuclear Magnetic Resonance (Cambridge University Press); Gordy, Smith and Tarambulo, Microwave Spectroscopy (John Wiley); Shockley, Holes and Electrons in Semi-Conductors (Van Nostrand); Brillouin, Wave Propagation in Periodic Structures (Dover Publications); Wilson, Theory of Metals—2nd Edition (Cambridge University Press).

PHYSICS

67. SEMINAR, NUCLEAR PHYSICS. Experimental nuclear physics from advanced undergraduate level to selected topics in current research.

2 hours.

Prof. Martin

68. SEMINAR, GENERAL PHYSICS. This seminar, in which students are required to take an active part, will cover the range of topics in which those in attendance may be specializing.

2 hours.

Professor Marshall and Professor Pounder

69. SEMINAR, PHYSICAL ELECTRONICS. Experimental physical electronics from advanced undergraduate level to selected topics in current research.

2 hours.

*Professors Wootton and members of the Staff
of the Eaton Laboratory*

71. ADVANCED GEOPHYSICS (APPLIED). Selected topics as enumerated in prerequisite course 47a (Arts and Science Announcement) are given more advanced mathematical and physical treatment. Supplementary theory, problems and analysis of field results are added. A laboratory is run concurrently whereby the various methods are demonstrated qualitatively and quantitatively. Facilities are available for some research work in Geophysical problems. Arrangements for practical experience in the field will be made where possible.

2 hours.

Dr. Telford

Textbooks: Eve and Keys, Applied Geophysics (C.U.P.); Dobrin, Milton B., Introduction to Geophysical Prospecting (McGraw-Hill 1952); Jakosky, J. J., Exploration Geophysics (Trija Publishing Co. 1950); Heiland, Geographical Exploration (Prentice-Hall).

Note: This course is designed primarily for candidates for the degree in Mineral Exploration as described on page 2696.

- 75A, 75B, 75C. These are the reference numbers for the first three *Preliminary Ph.D. Examinations*, namely the *General Paper* (75A), the *Problem Paper* (75B), and the *Preliminary Oral* (75C).

76. Reference number of the *Special Paper* of the Preliminary Examinations. This paper covers the specific fields of Physics bearing on the research of the candidate.

- 81, 82, 83. RESEARCH. These are the reference numbers for registration of research requirements for M.Sc. and Ph.D. students. The respective numbers refer to the research work conducted in the minimum three years of progress towards the Ph.D. degree, as noted below.

GRADUATE STUDIES

A suitable selection of the above courses may be made by qualified students when Physics is taken as a partial or a cognate subject.

Requirements for Master's Degree and First Year Ph.D. (a) Research 81, and M.Sc. thesis thereon. (b) Physics 62; (c) Two other courses to be chosen with the approval of the Supervisor of the student's research and the Chairman of the Department.

Second Year Ph.D. (a) Research 82. (b) Preliminary Examinations in December. (c) Seminar 67, 68, or 69. One additional course in Physics, Mathematics, or cognate subject may be permitted, or required, with the approval of the Supervisor of the student's research, and of the Chairman.

Third Year Ph.D. Completion of research 83, and Ph.D. thesis thereon. Final Oral. One course, examination optional, is also required.

For Ph.D. language requirements see page 2629.

Attendance at the Physical Society, seminars, and other scientific meetings, and the presentation of papers, form an important element in the training of graduate students.

DEPARTMENT OF PHYSICS

(Macdonald College)

Professor WILLIAM ROWLES, *Chairman*
Assistant Professors B. P. WARKENTIN
A. L. CARTER

The course below may form part of the required courses for graduate students in Physics (see page 2740), or may be taken by students in other departments as a cognate subject.

COURSE AVAILABLE TO GRADUATE STUDENTS

A. ADVANCED BIOPHYSICS

2 hours, second term.

(Given in 1961-62.)

Professor Rowles

DEPARTMENT OF PHYSIOLOGY

Professors F. C. MACINTOSH, *Chairman*
A. S. V. BURGEN
B. DELISLE BURNS
Assistant Professors SIMON DWORKIN
BERNICE GRAFSTEIN

PHYSIOLOGY

Lecturers

PAUL SEKELJ
KATHLEEN G. TERROUX
C. M. MCBRIDE
CARL PINSKY
E. J. REININGER
O. M. SOLANDT
HYMAN WEINER

Sessional Lecturer

Candidates who as undergraduates have satisfactorily completed the Honours Course in Physiology or in Physics and Physiology may present themselves for examination for the M.Sc. degree at the end of one year's graduate work in the Department. Others will usually have to spend a longer time in preparation, or take a qualifying year. Candidates for the Ph.D. degree must pass a general examination in Physiology, but will be judged principally by the ability they display in research. Candidates for either degree are expected to attend the graduate course listed below, and may be required also to pass certain advanced undergraduate courses in Physiology or related subjects.

The main research interests of the Department are at present the chemical and electrical behaviour of the nervous system and of secretory tissues, the release of physiologically active substances from tissues, the physiology of serous cavities and the development of physical apparatus for medical and physiological research.

ADVANCED UNDERGRADUATE COURSES

41. ADVANCED GENERAL PHYSIOLOGY
3 hours lecture and 8 hours laboratory. (First term)
42. ADVANCED MAMMALIAN PHYSIOLOGY
3 hours lecture and 8 hours laboratory. (Second term)
43. PHYSIOLOGICAL INSTRUMENTATION
2 hours lecture and 3 hours laboratory.
44. SELECTED TOPICS IN PHYSIOLOGY
2 hours lecture, and experimental project.

GRADUATE COURSE

61. LECTURES ON SELECTED ADVANCED TOPICS. The subject matter varies from year to year.
1 hour.

GRADUATE STUDIES

PLANT PATHOLOGY

(Department of Entomology and Plant Pathology, Macdonald College)*

Professors D. K. MCE. KEVAN, *Chairman*
J. G. COULSON (*Post-retirement*)

Associate Professor R. L. PELLETIER

Assistant Professors E. O. CALLEN
R. H. ESTEY

A liberal interpretation is put on the term Plant Pathology. Adequate laboratory, greenhouse and library facilities are available for the courses listed below and for research. Students are recommended and may be required to take courses offered by the Department of Botany either as part of their major work or as cognate subjects. The Plant Pathology Laboratories are closely integrated with those of Entomology and advantage may be taken of this fact. Candidates for admission are advised that a general knowledge of the fundamental practices in agronomy and horticulture are desirable.

The courses consist of informal lectures, directed reading, laboratory work, special assignments, colloquia and discussions. Field work where appropriate or practicable may also be required. Formal lectures may be given from time to time and excursions arranged to places of interest. All members of the graduate school, while resident at Macdonald College, are expected to take an active part in all departmental seminars and themselves to address at least one seminar meeting during the session.

COURSES FOR HIGHER DEGREES

- | | |
|------------------------------------|---|
| 61. HISTORY OF PLANT PATHOLOGY | |
| Half course, first or second term. | <i>Professor Estey</i> |
| 62. ADVANCED MYCOLOGY | |
| Full course. | <i>Professor Estey</i> |
| 63. ADVANCED PLANT PATHOLOGY | |
| Full course. | <i>Professors Coulson and Pelletier</i> |
| 64. PRINCIPLES OF PLANT PATHOLOGY | |
| Full course. | <i>Professors Coulson and Pelletier</i> |
| 66. SEMINAR | |
| One meeting weekly. | <i>Staff</i> |

*For Entomology, see page 2674.

PLANT PATHOLOGY

68. NEMATOLOGY

At present given only by special arrangement.

Full or half course.

Professors Estey and Kevan

69. TAXONOMY AND ECOLOGY OF ECONOMIC PLANTS

In addition to a general study of economically significant plants and taxonomic theory, this course involves the student in a special investigation of a selected group.

Full course.

Professor Callen

BOTANY 61. ADVANCED PLANT PHYSIOLOGY

Full course.

Botany Department

BOTANY 63. PLANT ECOLOGY

Full course.

Botany Department

M.Sc. REQUIREMENTS

Candidates for admission must have had (1) satisfactory previous training in mathematics, physics, chemistry and biology; and (2) have obtained at least second class standing in the undergraduate courses in Plant Pathology given at Macdonald College, or their equivalent. For students who satisfy these conditions the minimum period of study is one year, for others two years, one of which may be a qualifying year in which advanced undergraduate courses are usually taken.

In addition to presenting a thesis the student shall take such courses and write such examinations as are deemed necessary by the chairman of the department in consultation with the director of the candidate's research. Normally this amounts to a minimum of two full courses (or their equivalent) in addition to Plant Pathology 61 and the Seminar. For the latter a mark is required in the first year (or in the case of qualifying students in each of the first two years).

The candidate will normally be expected to spend at least one summer season in full-time research at Macdonald College, or, under suitable direction, at some other approved institution.

Ph.D. REQUIREMENTS

Students who have obtained a high standing in the M.Sc. courses in Plant Pathology at McGill University or the equivalent (including M.Sc. in Botany, with a sound background in plant pathology), may proceed to the Ph.D. degree in two additional years. Qualified students holding a B.Sc. degree of high standing may register directly for the Ph.D. with the consent of the chairman of the department, but before being allowed to enter the second year, such students must pass an examination to determine their fitness to proceed.

GRADUATE STUDIES

In addition to presenting a thesis the candidate may be required to take such courses and pass such examinations as are decided upon in consultation with the chairman of the department and the director of his research. Normally no course work (other than Seminar) will be required during the final year and not usually more than two full courses (or their equivalent) during the preceding year for candidates already possessing an M.Sc. of McGill University or its equivalent. Candidates are required to take either Botany 61 or 63 (or their equivalent), if neither has been taken previously, but may also be advised to attend courses bearing on their research work at any time during their period of resident study.

Participation in seminars will be taken into consideration in the final assessment of the candidate, but formal marks will not be given.

The Preliminary Examination is normally conducted jointly with the Department of Botany.

Ph.D. candidates may be permitted to spend one of their three years of full-time graduate study at an approved university or research institution other than McGill University. The candidate may be required to spend the equivalent of two summer seasons in full-time research at Macdonald College or, under suitable direction, at some other approved institution.

Candidates for M.Sc. or Ph.D. degrees should indicate their fields of special interest before making formal application for admission. Facilities are available for research in most branches of plant pathology and related fields, but candidates with special problems should consult the chairman of the department in advance.

DEPARTMENT OF POULTRY HUSBANDRY

(Macdonald College)

Associate Professors

NIKOLAI NIKOLAICZUK
R. POIRIER

Specialization in poultry husbandry in undergraduate training is preferred. Other candidates should have a background in biological chemistry or genetics where specialization is desired in poultry nutrition or poultry genetics respectively.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

A. ADVANCED POULTRY NUTRITION

Candidates for the M.Sc. in Poultry Husbandry (Nutrition) will take course A and at least two of the following: Agronomy 60 (Experimentation), Biochemistry 32 (McGill: Endocrinology), Biochemistry 45 (McGill: Oxidation).

3 hours, session.

B. ADVANCED POULTRY BREEDING

Candidates may register in the Department of Genetics for the required course work. Facilities and supervision for the conduct of research projects are available in the Department of Poultry Husbandry. The above departments are jointly responsible for such candidates.

3 hours, session.

DEPARTMENT OF PSYCHIATRY

Professors

D. EWEN CAMERON, *Chairman*

A. E. MOLL

Associate Professors

R. A. CLEGHORN

T. E. DANCEY

H. LEHMANN

A. W. MACLEOD

R. B. MALMO

M. SAFFRAN

B. SILVERMAN

T. L. SOURKES

TAYLOR STATTON

E. D. WITTKOWER

Assistant Professors

SAUL ALBERT

J. AUFREITER

H. AZIMA

T. J. BOAG

CARLO BOS

H. CAPLAN

B. M. CORMIER

J. F. DAVIS

P. G. EDGEHILL

H. F. ELLENBERGER

N. P. EPSTEIN

L. G. HISEY

V. A. KRAL

H. B. M. MURPHY

M. S. RABINOVITCH

C. A. ROBERTS

COURSES FOR THE DEGREE OF MASTER OF SCIENCE IN PSYCHIATRY

Admission is restricted to candidates who hold an M.D. with good standing from an approved institution, and have adequate postgraduate experience in clinical psychiatry.

GRADUATE STUDIES

The length of the course cannot be less than one year, which must be spent in non-clinical research, the research subject and thesis topic to be approved beforehand by the Chairman of the Department of Psychiatry and the Dean of the Faculty of Graduate Studies and Research. If more than one year is required by the candidate, the portion of time in excess of one year must be spent mainly, though not exclusively, in research.

Adequate library and laboratory facilities are available in the Department of Psychiatry (Allan Memorial Institute) for the courses listed below and for research.

- | | | |
|----|--|-------------------------------------|
| A. | PSYCHIATRIC THEORY AND CONCEPTS | |
| | 1 hour. | <i>Professor Lehmann</i> |
| B. | RESEARCH METHODOLOGY | |
| | Half course. | <i>Professor Cleghorn</i> |
| C. | STATISTICS | |
| | Half course. | <i>Professor Davis</i> |
| D. | ADVANCED PSYCHOPHYSIOLOGICAL RELATIONS | |
| | 1 hour. | <i>Professor Sourkes</i> |
| E. | PSYCHOPATHOLOGY | |
| | 1 hour. | <i>Dr. Z. J. Lipowski</i> |
| F. | EPIDEMIOLOGY OF MENTAL ILLNESS | |
| | 1 hour. | <i>Professor Murphy</i> |
| G. | RECENT ADVANCES IN PSYCHIATRIC THERAPY | |
| | 1 hour. | <i>Dr. L. Levy and Dr. P. Roper</i> |
| H. | RECENT ADVANCES IN PSYCHIATRIC THEORY | |
| | 1 hour. | <i>Professor Ellenberger</i> |
| I. | COGNATE SUBJECTS: | |

Each student will be required to take certain courses in cognate subjects, such as Psychology, Sociology, Endocrinology, and Neurology. These will be determined upon the basis of the special field of psychiatry in which the candidate's research work is being carried out.

DEPARTMENT OF PSYCHOLOGY

Professors

E. C. WEBSTER, Chairman

D. O. HEBB

G. A. FERGUSON

PSYCHOLOGY

Associate Professors

DALBIR BINDRA
R. B. MALMO
P. M. MILNER

Assistant Professors

W. HERON
W. E. LAMBERT
M. S. RABINOVITCH
M. STERN

Research Associate

R. PRITCHARD

APPLIED PSYCHOLOGY CENTRE

Professor

E. C. WEBSTER, *Director*

Associate Professor

E. G. POSER

Assistant Professors

VIRGINIA DOUGLAS

Lecturer

BLOSSOM WIGDOR

Graduate work in the Department of Psychology follows two main lines: experimental-theoretical, including comparative, physiological, and social psychology, as well as statistical method, leading to M.A., M.Sc., and Ph.D. degrees; and applied psychology, chiefly in the industrial, clinical, and guidance fields, leading to M.Sc.(Appl.) and Ph.D. degrees.

No distinction in training is made between M.A. and M.Sc. degrees; which of these the candidate enrolls for is determined by his Bachelor's degree (*i.e.*, B.A. is followed by M.A., B.Sc. by M.Sc.).

Admission to graduate work will depend on the estimate made by members of the department of the student's aptitude for original contributions to knowledge, or for professional contribution in the applied field. It will not depend merely on high marks made in course work, nor on the student's having taken a large number of courses in psychology. In addition to a biologically-oriented introductory course the student should have four full courses (each the equivalent of six semester-hours), including experimental, systematic (or theoretical) psychology, and some knowledge of the historical development of modern ideas. Some knowledge of statistical method as applied to psychological problems (equivalent to an introductory course in this field) is essential.

Equally necessary are a knowledge of elementary physiology and of physics or chemistry, some comprehension of philosophical thought, and of modern developments in other social sciences. All students, no matter what kind of specialization is ultimately aimed at, are expected to have the same core of undergraduate training, equivalent to the Honours degree at McGill. The student who has not sufficient preparation, either

GRADUATE STUDIES

in psychology or in the related subjects referred to above, but has shown promise of aptitude for advanced original work, can be accepted after the completion of a qualifying year.

Application should be made by March 1. Candidates must submit with their applications the results of the Miller Analogies Test. Those who are not at a centre where the Miller Analogies can be given should make arrangements for a special examination.

COURSES

51. TEST CONSTRUCTION
1½ hours.
52. APPRAISAL OF INTELLIGENCE
Use of Stanford-Binet and Wechsler tests primarily.
3 hours.
55. APPRAISAL OF PERSONALITY
Review of current methods of personality assessment.
3 hours.
56. EDUCATIONAL AND VOCATIONAL GUIDANCE
3 hours.
57. ABNORMAL PSYCHOLOGY
3 hours.
58. ADVANCED EDUCATIONAL PSYCHOLOGY
3 hours.
59. ADVANCED PERSONALITY APPRAISAL
3 hours.
61. ADVANCED STATISTICS. A didactic advanced course.
3 hours.
62. PSYCHOLOGICAL THEORY. Seminar designed as an introduction to other courses listed below.
3 hours.
63. SEMINAR IN ADVANCED EXPERIMENTAL PSYCHOLOGY
2 hours.
64. SEMINAR IN COMPARATIVE AND PHYSIOLOGICAL PSYCHOLOGY
2 hours.

PSYCHOLOGY

- 65. SEMINAR IN DEVELOPMENTAL PSYCHOLOGY
2 hours.
 - 66. SEMINAR IN SOCIAL PSYCHOLOGY
3 hours.
 - 67. SEMINAR IN INDUSTRIAL PSYCHOLOGY
3 hours.
 - 68. THEORY AND TECHNIQUES OF PSYCHOLOGICAL MEASUREMENT
2 hours.
 - 69. SEMINAR IN PERSONALITY
2 hours.
 - 71. FACTOR ANALYSIS
2 hours.
-
- 70. Reference number for comprehension examination written by candidates for the M.A., or M.Sc. degree.
 - 80. Reference number for comprehensive Preliminary Ph.D. examinations.
 - 90. Reference number for comprehensive examinations of M.Sc. (Applied) students.

REQUIREMENTS FOR M.A. AND M.Sc. DEGREES

Candidates must demonstrate a sound knowledge of modern theory, of its historical development, and of the logic of statistical methods as used in psychological experiment. They will be expected to have an understanding of the main lines of current work in other than their own particular field of specialization.

All candidates must take courses 61, 62, and 70, and in addition any other course specified by the Department. The primary concern of the candidate, however, is his thesis. For this the exploratory work, at least, should get under way early in the year. Following presentation of the thesis, a comprehensive written or oral examination will be held which, in conjunction with the thesis itself, will determine the candidate's final standing for the degree.

REQUIREMENTS FOR THE Ph.D. DEGREE

The candidate for the Ph.D. degree must demonstrate a broad scholarship, mastery of current theoretical issues in psychology and their historical development, and a detailed knowledge of his special field. Preliminary examinations will be held at two stages: one at the time of

GRADUATE STUDIES

the Master's degree or immediately afterward, and one at the conclusion of the following year. These examinations may be written or oral, or both, at the discretion of the Department. They will cover three fields, as follows: (a) modern theoretical issues and history; (b) "experimental" (normal human adult) psychology and statistical methods; and (c) one from the following: comparative and physiological psychology; developmental psychology; social psychology; personality; advanced statistics; industrial psychology; clinical psychology.

REQUIREMENTS FOR THE M.Sc. (Appl.) DEGREE

The degree of M.Sc. (Appl.) in industrial, guidance, or clinical psychology is awarded to candidates who achieve a high standard of scholarship in psychology and who have demonstrated an aptitude for the professional application of psychological knowledge. The minimum time necessary to attain the degree is two years.

Individuals following this programme will normally spread some five or six courses over the two year period. During the summer they will work under approved supervision and, during the second year, two and a half days per week will be spent in approved internship.

Award of the degree M.Sc. (Appl.) will be determined by the student's standing in course examinations, by his standing in a comprehensive examination or examination, and by the report of his supervisors concerning his fitness for professional work in psychology.

DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY

<i>Associate Professor</i>	WILLIAM A. WESTLEY, <i>Chairman</i>
<i>Assistant Professors</i>	FREDERICK ELKIN JACOB FRIED HOWARD ROSEBOROUGH AILEEN D. ROSS DAVID N. SOLOMON TOSHIO YATSUSHIRO
<i>Lecturer</i>	COLETTE CARISSE
<i>Research Assistants</i>	ROSALYND BAYLIN WINIFRED L. BORTHWICK

The Department of Sociology and Anthropology offers training leading to the Master of Arts degree. For admission to candidacy applicants must have a bachelor's degree based upon a record of at least second class standing. Candidates lacking sufficient preparation in Sociology and/or Anthropology will be assigned additional courses of study beyond those regularly required.

SOCIOLOGY AND ANTHROPOLOGY

For the M.A. degree a minimum of one year of graduate study beyond the bachelor's degree is required. However, this minimum period of residence will be sufficient only for students who have, as undergraduates: (a) pursued a concentration in Sociology and/or Anthropology; (b) a record of at least second class standing; and (c) at least second class standing in courses in research techniques, in theories of social behavior, and in problems and concepts of both Sociology and Social Anthropology. Students who lack all of these requirements must register for one qualifying year in order to make up their deficiencies before they may pursue graduate training.

Candidates who have completed these requirements will be expected to devote the major part of their attention to the completion of a thesis. The exploratory work for the thesis should be undertaken early in the graduate year. In addition, candidates are required to register for three graduate seminars, in which they must achieve at least second class standing. The candidate's final standing for the M.A. degree is determined on the basis of his record in the seminars and the judgment by members of the Department of his thesis.

Candidates who must register for a qualifying year before pursuing graduate training are required to register for five and a half undergraduate courses, which they must pass with at least second class standing. These courses are Sociology 304, Sociology 403, Anthropology 313, Anthropology 412, Psychology 22a or 22b, and one other undergraduate course in Sociology or Anthropology. If the candidate shows evidence of sufficient preparation in some fields, the required number of courses may be reduced. For further information regarding the undergraduate courses in Sociology and Anthropology, candidates should consult the Announcement of the Faculty of Arts and Science.

A number of teaching and research assistantships are available to students in the Department. Students who wish to be considered for such assistantships should inform the Chairman of the Department.

SOCIOLOGY

The general requirements for the M.A. degree in the Department are stated on pages 2623 and 2758. The special requirements for the M.A. degree in Sociology follow:

In addition to the thesis, which is of major concern, candidates must register for, and pass with at least second class standing, the following graduates seminars: Sociology 610, 650, 710 and 720.

The Department encourages research in the following areas:

1. Social Stratification

GRADUATE STUDIES

2. Community Organization
3. Minority Group Relations
4. Mass Communications
5. Education and Socialization
6. Complex Organizations, such as the business firm, the hospital
7. The Sociology of the Family
8. The Sociology of Medicine
9. The Sociology of Work—occupations and professions
10. Economic Sociology.

COURSES OFFERED

301. **ANALYSIS OF INDUSTRIAL SOCIETIES.** Third year (Full course). Comparative treatment of the social systems of such modern industrial societies as the United States, Soviet Russia, England, Japan, and Canada. Categories of analysis include kinship, occupation, property, stratification, the organization of authority and major values.

3 hours.

Professor Roseborough

302. **MINORITY GROUPS AND THE COMMUNITY.** Third year (Full course). The rise of modern urbanism; patterns and theories of urban growth; the participation of minority groups in urban institutions; the relation of minority groups to the class and caste structure; problems of upward and downward mobility; dominant group attitudes and ideologies concerning minority groups; the effect of minority group membership on the individual.

3 hours.

Professor Ross

303. **THE FAMILY AND SOCIALIZATION.** Third year (Full course). The family will be studied as a primary group and as an institution. Attention will be given to trends in family organization, reactions to family crises, and the prediction of success and failure in marriage. Socialization will be studied from the perspective of social interaction. Attention will be given to theories of socialization; agencies such as the school, peer group, and mass media; and the varying patterns in social class, ethnic, and other societal sub-divisions.

3 hours.

Professors Westley and Elkin

304. **TECHNIQUES OF SOCIOLOGICAL RESEARCH.** Third year (Full course). An introduction to the practical and theoretical problems of sociological research. Among the topics discussed are the formulation of research

SOCIOLOGY AND ANTHROPOLOGY

problems, the selection of samples, and the analysis and interpretation of data. Among the techniques are observation, interviewing, and questionnaire construction.

3 hours.

Professors Roseborough and Solomon

- 360a. **CRIMINOLOGY.** Third or Fourth year (Half course). Theories of crime; social systems and their punitive practices; types of crime in modern society; the relationships between social power, the law, and crime; the slum community; the police; political crimes.

3 hours, first term.

Professor Westley

(Not given in 1960-61.)

401. **COLLECTIVE BEHAVIOR AND MASS COMMUNICATIONS.** Fourth year (Full course). The nature of mass society; crowds, fashions, and other elementary forms of collective behaviour; social movements; social control, content, and influence of the press, movies, television, and other media of mass communication.

3 hours.

Professor Elkin

402. **SOCIOLOGY OF WORK.** Fourth year (Full course). Work will be considered from two points of view: (A) the professions and other specialized occupations: occupational choice and mobility; types of careers; problems of achieving conformity to occupational norms; professional and trade associations; self-involvement in an occupation. (B) Industrial and other work organizations: formal and informal organization; roles of managers, executives, technical specialists, foremen, and workers; the concept and dynamics of bureaucracy; industry and society.

3 hours.

Professor Solomon

403. **THEORIES OF SOCIAL BEHAVIOUR.** Fourth year (Full course). The first part of the course will focus on 19th and 20th century theories of the nature of society and the relationship between society and the individual. Special attention will be devoted to the development of systematic theory in sociology. The second part of the course will focus on sociological theories of personality with particular emphasis on the function of language and communication in social development.

3 hours.

Professors Roseborough and Westley

- 411b. **SOCIAL STRATIFICATION.** Fourth year (Half course). The theory of caste and class divisions in modern society; the structure of class groups in the United States and Canada; the criteria of rank and the symbols

GRADUATE STUDIES

associated with rank; the relationship between occupation, education, and class position, problems of upward and downward mobility.

3 hours.

Professor Ross

(Not given in 1960-61.)

440b. POPULATION AND MIGRATION. Fourth year (Half course). An examination of the population composition of selected societies, regions and communities. Attention is centered on techniques of population research and on the social determinants and consequences of population distribution and change.

3 hours.

Professor Roseborough

(Not given in 1960-61.)

610. SEMINAR: SOCIAL COMMUNICATIONS AND PERSONALITY (Half course).

3 hours, one term.

Professor Elkin

650. SEMINAR: PROBLEMS IN METHODS OF RESEARCH (Half course).

3 hours, one term.

Staff

710. SEMINAR: THE SOCIAL DIVISION OF LABOR (Full course).

3 hours, both terms.

Professors Roseborough and Solomon

720. READING IN SOCIAL THEORY (Full course).

3 hours, both terms.

Staff

ANTHROPOLOGY

The general requirements for the M.A. degree in the Department are stated on pages 2623 and 2758. The special requirements for the M.A. degree in Anthropology follow:

In addition to the thesis, which is of major concern, candidates must register for, and pass with at least second class standing, the following graduate seminars: Anthropology 600, 620, 730, and Sociology 650.

The Department encourages research in the following areas:

1. North American Indians and Eskimo
2. Economic Development and Culture Change
3. Culture and Mental Health.

COURSES OFFERED

312. SURVEY OF PRIMITIVE AND NON-WESTERN CULTURES. Third or Fourth year (Full course). *First term:* Examination and comparison of primitive cultures throughout the world with particular emphasis on their technologies and values and their familial, educational, economic, religious,

SOCIOLOGY AND ANTHROPOLOGY

and political systems. *Second term:* Intensive ethnographic study of the native Japanese, Hindu, and Chinese cultures in Asia, and two representative cultures from East and West Africa.

3 hours.

Professor Yatsushiro

Texts: Service, *A Profile of Primitive Culture* (Harper); Benedict: *Patterns of Culture* (Mentor); One other text to be designated.

313. HUMAN CULTURE: ITS GROWTH, SPREAD, AND CHANGE. Third or Fourth year (Full course). *First term:* The nature of human culture; its evolution and diffusion from prehistoric times to the beginnings of recorded history. *Second term:* Analysis of the process, determinants, and principles of culture change, based on an examination of selected non-Western cultures. Attention is given to the cultural reorganization resulting from social and technological innovations and from contact with Western civilization.

3 hours.

Professor Yatsushiro

Texts: Linton, *The Tree of Culture* (Knopf); Childe: *Man Makes Himself* (Mentor); Spicer, *Human Problems in Technological Change* (Russell Sage).

- 325b. THE CULTURE AND SOCIAL ORGANIZATION OF FRENCH CANADA. Third or Fourth year (Half course). The description and analysis of the culture and social organization of French Canadians in the Province of Quebec and of French-speaking groups in North America.

3 hours, second term.

(Not given in 1960-61).

412. SOCIAL AND CULTURAL ANTHROPOLOGY. Fourth year (Full course). *First term:* Historical review of theories in anthropology; analysis of the social organization of non-Western peoples and cultures. *Second term:* The patterning and integration of culture; ethos and value systems.

3 hours.

Professor Fried

- 420a. CULTURE AND PERSONALITY. Third or Fourth year (Half course). The study of the cultural background of personality; the effects of socialization on personality formation in diverse types of cultures, primitive and modern; the relation of social structure and cultural values to personality dynamics.

3 hours, first term.

Professor Fried

- 422b. PRIMITIVE ECONOMICS. Third or Fourth year (Half course). Analysis of the modes of production, exchange, and consumption of goods and services of selected non-Western societies; the relation of economics to

GRADUATE STUDIES

other aspects of culture; the values and motives underlying economic behaviour and the economic system.

3 hours, second term.

Professor Yatsushiro

Text: Herskovits, *Economic Anthropology: A Study in Comparative Economics* (Knopf).

(Given in 1961-62 and alternate years).

- 426b. PRIMITIVE RELIGION. Third or Fourth year (Half course). The study of religious beliefs and practices in primitive and non-Western cultures, with special reference to the relationship of religion to economic, political, stratificational, and other aspects of cultural life. Magic, witchcraft, divination, shamanism, totemism, animism, animatism, ancestor worship, and other related topics are discussed.

3 hours, second term.

Professor Yatsushiro

Text: Howells, *The Heathens: Primitive Man and His Religions* (Doubleday).

(Given in 1960-61 and alternate years).

600. SEMINAR: ADVANCED SOCIAL ANTHROPOLOGY (Full course).

3 hours, both terms.

Staff

620. SEMINAR: ABORIGINAL POPULATIONS OF CANADA.

3 hours, one term.

Professor Fried

630. SEMINAR: SOCIAL INSTITUTIONS OF FRENCH CANADA.

3 hours.

(Not given in 1960-61.)

730. READING AND RESEARCH (Full course).

3 hours, both terms.

Staff

"SEMINAR ON THE PLEISTOCENE AND ARCTIC," see under Geography.

DEPARTMENT OF ZOOLOGY

Professors

JOHN STANLEY, *Chairman*

N. J. BERRILL

M. J. DUNBAR

Assistant Professor

JOAN MARSDEN

Lecturers

B. E. MAXWELL

P. M. DRIVER

*Special Lecturer (Professor of
Parasitology and Director of the
Institute of Parasitology at
Macdonald College)*

T. W. M. CAMERON

Graduate students are expected to take such courses, including cognate courses in other departments, as relate to their particular line of specialization, if not previously taken. Qualifying students may be required to take up to five full courses, others will take from two or three in their first year to none in their last year. Primary emphasis for both the M.Sc. and Ph.D. is placed upon research and thesis presentation.

Ph.D. candidates will be required to write a comprehensive examination lasting six hours in February of their penultimate year. Copies of past papers are available in the Department.

The Department specializes in work bearing on developmental theories, embryology, histology, limnology, biomathematics, marine and Arctic biology, fresh water ecology.

Excellent laboratory and library facilities are available for research, including constant temperature equipment. The Blacker and Wood Zoological Libraries comprise over 50,000 volumes.

Students are accepted on the basis of a good Honours degree from a Canadian or British University, or on the basis of first class standing with a major in the biological field from an American or other University. Students applying on the basis of an Honours degree in the General Honours in the Biological Sciences course offered at McGill University should have at least a high second class, and should understand that they may have to spend additional time in fortifying their knowledge of zoology.

324. **ADVANCED INVERTEBRATE ZOOLOGY** (*except ARTHROPODA*). A study of the comparative anatomy, taxonomy, development, evolution, and economic importance of invertebrate animals other than the Phylum *Arthropoda*. Graduate students will be expected to do additional work and reading.

2 lectures and 3 hours laboratory per week.

Professor Stanley

Textbooks: Borradaille, Eastham, Potts, *The Invertebrata* (Macmillan); Pratt, *Manual of the Common Invertebrates* (Macmillan).

A laboratory manual is issued by the Department.

(Offered in alternate years with Zoology 325. Not offered in the session 1960-61.)

325. **THE ARTHROPODA**. A study of the comparative anatomy, taxonomy, development, evolution, and economic importance of animals of the Phylum *Arthropoda*. Graduate students will be expected to do additional work and reading.

2 hours lectures and 3 hours laboratory per week.

Professor Stanley

Textbooks: Borradaille, Eastham, Potts, *The Invertebrata* (Macmillan); Pratt, *Manual of the Common Invertebrates* (Macmillan).

GRADUATE STUDIES

A laboratory manual is issued by the Department.

(Offered in alternate years with Zoology 324. Offered in the session 1960-61.)

431. HISTOLOGICAL TECHNIQUE (PRACTICE AND THEORY). Training in the making of various types of histological preparations, discussion of the theories involved, and interpretation of the results obtained.

1 hour lecture and 6 hours laboratory per week.

Dr. Maxwell

Textbook: Carleton & Drury, *Histological Technique* (Oxford University Press).

Prerequisite: Zoology 322 (Second class standing).

332. ANIMAL ECOLOGY. A study of the inter-relations between animals, groups of animals, and their environments. The zoogeography of terrestrial, marine and fresh water populations; the analysis of the physical environment in all three divisions of the biosphere; migrations, emigrations, and other movements of animals, and the numerical behaviour of populations. Ecology and Evolution. Graduate students will be expected to do additional work and reading.

3 lectures per week.

Professor Dunbar

435. APPLIED BIOMATHEMATICS. A study of mathematical theories of growth and form, mathematics as applied to the growth of populations; host-parasite relations, relative growth, radio-active tracers, etc. Graduate students will be expected to do additional work and reading.

2 lectures per week, first term; 1 per week, second term.

Professor Stanley

Prerequisite: A good working knowledge of the calculus.

- 337b. THE HISTORY OF BIOLOGY. A study of the development of scientific observation in biology, with emphasis on zoology, from the Sixth Century B.C. to the present day. The history of anatomy, comparative morphology, embryology, palaeontology, and ecology. Theories of the relationships of animals, and parts of animals, and of their evolution. Philosophical history of biology. Biological expeditions. Graduate students will be expected to do additional work and reading.

3 lectures per week, second term.

Professor Dunbar

Textbooks: Singer, *Short History of Biology* (H. K. Lewis); Nordskiöld, *History of Biology* (Tudor).

(Offered in alternate years. Offered in 1960-61.)

ZOOLOGY

343. LIMNOLOGY. A study of the fresh water environment and its organisms. The classification of inland waters, the physical, chemical and biological characteristics of lakes. Productivity of and evolutionary changes in lakes. Rivers, bogs, special types of lakes.

First term: 1 lecture a week with seminars and field trips.

Second term: 1 lecture a week with field trips when possible.

Professor Marsden

345. PHYSIOLOGICAL ZOOLOGY. A functional study of diverse mechanisms which have been evolved in different types of animals to carry on such basic activities of life as nutrition, water balance, nitrogen excretion, respiration, locomotion, stimulus reception, nervous and endocrine co-ordination.

2 hours lectures and 3 hours laboratory per week throughout the session.

Professor Marsden

Prerequisites: Zoology 211 or 221, and Physiology 22.

(Not offered in 1960-61.)

446. SYSTEMATICS AND EVOLUTION OF VERTEBRATES. A study of the present systematics of the vertebrate classes, presented in terms of their past histories since the periods of their first appearance. Zoogeography and general zoology of the vertebrates.

3 lectures per week.

Professor Dunbar

551. ARCTIC ZOOLOGICAL RESEARCH. A seminar course for graduate students designed to stimulate interest in zoological work and research in Arctic North America. The history of zoological work in the north, special problems, conservation and development, field methods. Introduction to the literature.

1 hour per week.

Professor Dunbar

552. THE GROWTH OF POPULATIONS. A study of the works of Bailey, Crombie, Gause, Lotka, Malthus, Mendes, Nicholson, Salt, Stanley, Volterra, Weiner and others relative to mathematical theories of the growth of populations. A laboratory study of a population and analysis of the results.

Seminars, lectures and laboratory work equivalent to 2 hours lectures and 3 hours laboratory per week for 2 terms

Professor Stanley

Prerequisite: Zoology 435 and ready familiarity with calculus, differential equations, theory of equations, etc.

GRADUATE STUDIES

553. MARINE BIOLOGY. A study of the fundamentals of, and methods in, marine biology (including physical oceanography). An introduction to the literature.

1 hour per week.

Professors Berrill and Dunbar

"SEMINAR ON THE PLEISTOCENE AND ARCTIC," see under Geography.

LIBRARIES

All resident graduate students have access to the Redpath Library, containing over 500,000 volumes. The building also houses a number of special collections, such as the Blacker Library of Zoology. The Libraries of Engineering and of Medicine are housed in the Engineering and Medical buildings; the latter includes much of the material for the medical sciences, and a separate room contains the Osler Library, devoted principally to medical history. There are special libraries for Commerce and Law and at Macdonald College. A number of departments maintain special libraries, of which the most extensive are in Chemistry, Geology, and Physics, grouped together in the Physical Sciences Centre. All of these collections may be consulted by resident graduate students, though the hours for reading and the conditions under which books may be consulted or borrowed are not the same in all cases.

McGill University



Montreal

Library School

1960-1961

PUBLICATIONS

The following official publications are issued by the University and may be obtained from the Registrar's Office.

Announcements of Faculties and Schools as follows:

General Announcement

School Certificate Examinations

Scholarships, Bursaries, and Loan Funds

Faculty of Arts and Science (Degrees in Liberal Arts and in Pure Science. There is a separate Announcement for the School of Commerce.)

Faculty of Medicine

Faculty of Medicine Postgraduate Courses

Faculty of Dentistry

Faculty of Engineering (Degrees in Engineering and in Architecture)

Faculty of Law

Faculty of Music

Faculty of Divinity

Faculty of Graduate Studies and Research

School of Commerce

Library School

School for Graduate Nurses

School of Physical and Occupational Therapy

School of Social Work

Macdonald College (Faculty of Agriculture and School of Household Science)

Institute of Education

French Summer School

Extension Courses

The Directory of Staff (University administrative officers, standing committees, and officers of instruction. For limited distribution.)

The Calendar (available for distribution only to libraries and officials of certain institutions.)

Library School

The Library School is under the administrative jurisdiction of the Faculty of Arts and Science.

ADMINISTRATIVE OFFICERS OF THE UNIVERSITY

F. CYRIL JAMES, Chevalier de la Légion d'Honneur, Ph.D., D.Sc., D. de l'U.,
D.C.L., LL.D., F.R.S.C. *Principal*

D. L. THOMSON, Ph.D., LL.D., F.C.I.C., F.R.S.C. *Vice-Principal and Dean,
Faculty of Graduate Studies and Research*

H. N. FIELDHOUSE, M.A., F.R.S.C. *Dean, Faculty of Arts and Science*

JOHN H. HOLTON, B.Com. *Secretary of the Board of Governors*

COLIN M. McDOUGALL, D.S.O., B.A. *Registrar*

G. A. GRIMSON, B.Com. *Comptroller*

D. C. BAIN, B.A. *Chief Accountant*

LIBRARY SCHOOL STAFF*

VERNON ROSS, B.S. in L.S. (Columbia), M.A.
Director of the Library School and Associate Professor of Library Science

VIRGINIA MURRAY, B.L.S., M.A. (Columbia) *Associate Professor*

EFFIE ASTBURY, B.A., B.L.S., M.L.S. (Toronto) *Assistant Professor*

VIOLET COUGHLIN (MRS. ERROLL), B.Sc., B.L.S., M.A. (Columbia)
Assistant Professor

BERYL L. ANDERSON, B.L.S., M.A. (Dalhousie) *Lecturer*

RICHARD PENNINGTON, B.A. (Birmingham), Lib.Dipl. (Lond.)
Librarian, McGill University, and Sessional Lecturer

GRACE E. DE JONG (MRS. JOHN H.) *Secretary*

*Degrees received from McGill University carry no institutional designation.

CALENDAR

1960

September 19, Monday. Students register in the Library School.

September 20, Tuesday. Lectures begin in the Library School.

December 21, Wednesday. Christmas Holidays begin.

1961

January 4, Wednesday. Lectures resume in the Library School.

January 13, Friday. First term ends in the Library School.

January 16, Monday, to January 20, Friday. Examinations in the Library School.

January 23, Monday. Second term begins in the Library School.

March 31, Friday, to April 3, Monday. Easter Vacation.

May 5, Friday. Lectures end in the Library School.

May 10, Wednesday, to May 18, Thursday. Examinations in Library School.

May 31, Wednesday. Convocation.

Dates to be announced: Library School trip. Field work.

Special dates for M.L.S. students: see page 3017.

McGill University

LIBRARY SCHOOL

GENERAL

McGill University was the first institution in Canada to provide library training and the first to grant the degree in library science. Short summer courses were given from 1904-1927, the first regular sessional course being given in 1927-28. The School was accredited by the Board of Education for Librarianship of the American Library Association and the B.L.S. (5th year) degree was first conferred in May, 1931. In 1957 the School was reaccredited as a graduate library school by the Committee on Accreditation of the American Library Association, and it is listed with the American library schools which give the M.L.S. (5th year) degree. The McGill M.L.S. is given after a 6th year of study and is a research degree for advanced graduate work only. It is open to experienced librarians who already hold a 5th year B.L.S. or a 5th year M.L.S. For description see page 3016.

University graduates are trained for professional library work of all kinds—in university and college, public, school, children's, and special libraries. The school is situated in a large city in which are to be found all types of library and it is a part of a university with a tradition of sound scholarship. It occupies rooms in the main University Library building and its students have access to the stacks of the University Library.

DEGREE OF BACHELOR OF LIBRARY SCIENCE

Candidates who successfully complete all the required work of the School are entitled to receive the degree of Bachelor of Library Science (B.L.S.) at the May Convocation and to wear the regulation black Bachelor's gown and a Bachelor's hood of black, lined with burnt orange silk and trimmed with white rabbit fur. Academic costume for graduation may be rented from the University.

REQUIREMENTS FOR ADMISSION

1. Applicants for admission to the course leading to the degree of Bachelor of Library Science must have a Bachelor's degree from an approved University. This degree must represent four years of study at a university beyond the McGill Matriculation requirement or its equivalent.

Applicants must present an official transcript of their University record.

LIBRARY SCHOOL

The School will take into account the character of the applicant's undergraduate studies and his, or her, suitability for library work. Courses in the humanities, sciences, and social studies are recommended as forming a suitable basis for subsequent training in library work, and it is expected that the applicant's academic grades shall have been better than average. Students whose undergraduate courses are unsuitable as a preliminary to Library School work may be required to undertake some supplementary preparation.

2. Applicants over thirty-five years of age will be considered for admission only in exceptional cases. They are at a disadvantage when applying for a position and usually find intensive study difficult. Exceptions may be made for those having special educational qualifications or several years of experience in library work.

3. As no one with *serious physical defects, personality difficulties, or ill health* can readily obtain a position in library service, such persons should not seek admission to the School.

4. Applicants for admission must fill in the School Application Form and attach thereto a recent photograph and an advance fee of \$10.00 which will be credited to the student's fee account. Should the application be rejected, this advance payment will be refunded. No refund will be made in the case of a student who withdraws after the application has been accepted.

5. Students are advised to learn to use a typewriter before entering, since a large part of the work done must be in typewritten form.

6. Applicants without previous experience are strongly advised to work in a library before taking the course.

EMPLOYMENT

While the School does not guarantee positions to graduates and will not recommend any with less than a "B" average, it makes an effort to help its graduates find suitable positions. Complete records are kept in the Library School files, and letters of reference are sent to prospective employers on request. Transcripts of the academic record may be obtained by applying to the Registrar's Office.

Any graduate of an approved university who also has successfully completed the degree of Bachelor of Library Science at McGill University will be entitled without further examination to the Specialist's certificate which is issued to Librarians serving in the Protestant High Schools of the Province of Quebec.

REGISTRATION AND ATTENDANCE

MEDICAL EXAMINATION

1. HEALTH CERTIFICATE

Students when applying must present a certificate of health on a form which may be obtained from the School and which should be filled in and signed by a physician.

2. VACCINATION

All students entering the University are required by the Provincial Board of Health to present a certificate, or other satisfactory evidence, of successful vaccination within seven years, or of insusceptibility to vaccine within five years, failing which they must immediately be vaccinated in a manner satisfactory to the Medical Examiner.

3. MEDICAL EXAMINATION

To promote their physical welfare, all men and women in the University are required to be medically examined at the beginning of the session.

REGISTRATION AND ATTENDANCE

REGISTRATION

Students in the Library School are required to present themselves at the office of the Library School on Monday, September 19th, preceding the commencement of lectures, in order to furnish the information necessary for the University records.

ATTENDANCE

1. Students are required to attend at least seven eighths of the total number of lectures or laboratory periods in any one course.

2. Excuses for absence on account of illness or domestic affliction are dealt with only by the Director of the School. Medical certificates covering absences must be presented by the student immediately after his return.

3. Those whose unexcused absences exceed one eighth of the total number of lectures in a course are not permitted to take the regular examination in that course; and those whose unexcused absences have exceeded one fourth of the total number of lectures must repeat the work in that course for credit.

EXAMINATIONS AND MARKS

Final marks are based on the term's work and the examinations. The pass mark is 65%.

LIBRARY SCHOOL

No student will be permitted to sit for the examinations unless he, or she, has fulfilled the requirements of the course to the satisfaction of the Instructor and the Director. Students whose progress is unsatisfactory may be asked to withdraw from the School.

FEES AND EXPENSES

1. FEES

The University reserves the right to make changes without notice in the published scale of fees if, in the opinion of the Board of Governors, circumstances so require. Fees are not refundable, except under special conditions as described in the regulations concerning remission of fees in the General Information Pamphlet.

(a) *Regular students*

Fees are due and payable at the Accounting Office on or before September 20th. If paid in two instalments the second shall be paid on or before January 15th. Instalment fee \$5.00. A late fee of \$2.00 is charged for payment after the specified dates, and no days of grace are allowed.

Fee for the Library Course..... \$500.00

By instalments:

First instalment..... 227.50

Second instalment..... 277.50

These fees include registration, instruction, (including Library Visits) the use of the Library, health service, athletics, students' activities, and graduation diploma.

Fee for each supplemental examination..... 10.00

(b) *Partial students*

Information concerning fees for such courses may be obtained from the Secretary of the School.

(c) *Arrears*

Immediately after September 20th (or January 15th in the case of students who pay by instalments), the Chief Accountant will send to the Director of the School a list of registered students who have not paid their fees. Such students cannot be re-admitted to classes until a satisfactory arrangement has been made with the Chief Accountant.

SCHOLARSHIPS, PARTIAL STUDENTS

2. TEXTBOOKS AND MATERIALS

Students should allow at least \$45 for text books. These are available from the University Book Store and the Library School. Blank forms, cataloguing cards, and other library supplies needed during the session may be obtained from the Secretary of the School.

3. LIBRARY VISITS

A visit, under the direction of members of the Faculty, to libraries in other Canadian cities is a required part of the Library course. (See 1a above.)

4. BOARD AND RESIDENCE

Information regarding accommodation may be found in the enclosed booklet of General Information.

5. CLUBS AND SOCIETIES

Students are encouraged to take advantage of the privileges offered to members of the Canadian Library Association, the Quebec Library Association, the Special Libraries Association, and the American Library Association. Women students of the School are eligible for membership in the University Women's Club, 3492 Peel Street, in the immediate neighbourhood of the School.

SCHOLARSHIPS

1. Two annual scholarships of \$400 each in honour of *Dr. G. R. Lomer*, former Director of the Library School.

2. *The Grolier Society Scholarship*, \$250.

3. *The Ethelwyn M. Crossley Scholarship Fund*, founded in honour of a former student of the school. Women students are given preference.

4. *The Elizabeth G. Hall Scholarship Fund*, founded in memory of a former member of the McGill University Library staff.

5. *McGill University Library School Alumni Scholarship Fund*.

These awards are made, after due investigation and recommendation, to deserving students who require financial assistance to take the course. Application should be made to the Director of the School.

A complete list of scholarships and bursaries and the regulations governing the various loan funds are given in the Announcement of Scholarships, Bursaries, and Loan Funds which may be obtained from the Registrar's Office.

PARTIAL STUDENTS

Qualified students who are not candidates for the degree may be admitted to individual courses as partial students. Before registration such students must satisfy the staff of the School of their ability to follow the courses selected, and they must fulfil all requirements of classroom work and tests prescribed for regular students of these courses.

LIBRARY SCHOOL

SPECIAL LECTURES

The students have the benefit of occasional special lectures from visiting librarians or local specialists. The programme for a recent session included lectures by: Dr. Wm. Kaye Lamb, National Librarian and Dominion Archivist; Miss Freda Waldon, Chief Librarian, Hamilton Public Library; Miss M. Cameron, Chief Librarian, Halifax Public Library; Mr. Deane Kent, Assistant Director, London Public Library; Mr. John Gray, Managing Director, The Macmillan Company of Canada; Mr. John Archer, Legislative Librarian and Provincial Archivist, Province of Saskatchewan; Mr. A. Thiessen, United Nations Library, New York; Mr. Claude Aubry, Chief Librarian, Ottawa Public Library; Mr. Clement Potter, Pulp and Paper Research Institute; Miss Emily Keeley, Librarian, Industrial Cellulose Research Ltd.; Miss Kathleen Jenkins, Librarian, Westmount Public Library; Miss Frances Dumaresq, Library Consultant to the Protestant School Board of Greater Montreal; Miss Elizabeth Morton, Executive Secretary, Canadian Library Association.

DESCRIPTION OF COURSES

The courses provided by the School are based upon the librarian's relation to: the building in which his library is housed, the books, periodicals, and other materials in his charge, the readers whom he serves, and the staff with whom he works. In teaching the various subjects of the curriculum, every effort is made to relate them to library work as a whole and to develop a dynamic, rather than mechanical, point of view with regard to the present practice and the future possibilities of the profession.

Whenever possible, the past history, the practice of today, and the probable future development of library activities are related, and students are encouraged to assume an attitude that is constructively critical and forward-looking, rather than one that is merely imitative, conventional, and retrospective. The work of the School is grouped under the following headings for convenience of instruction: 1. Organization and administration of libraries. 2. Acquisition and care of library materials. 3. Selection and use of library materials. 4. Field work.

ALL COURSES ARE REQUIRED EXCEPT THOSE MARKED ELECTIVE (SEE BELOW).

ELECTIVES

Special courses given in the second term are: Public Library Services; Children's and School Libraries; College and University Libraries; Special Libraries; Cataloguing and Classification; Government Documents. Three of these must be elected.

DESCRIPTION OF COURSES

COURSE VALUES

Courses are of various lengths. The point value of each is shown in parentheses followed by the number of the term in which it is given.

GENERAL

1. THE LIBRARY PROFESSION (2) I (1) II

Professor Ross

Intended to provide professional background, this course includes the historical development of library work; some famous libraries and librarians; a history of printing in Canada and the development of Canadian libraries; a brief survey of work in various types of library; an introduction to the literature of the profession; a study of the work of library associations; consideration of the training, qualifications and ethics of the librarian; efficient methods of work organization; personnel problems and public relations.

2. HISTORICAL BIBLIOGRAPHY (1) II

Mr. Pennington

This course deals with the history of the manuscript and printed book in Europe from classical times to the present. It includes lectures on palaeography, the transmission of texts, the invention and development of printing, and the technical processes of book making, including book illustration.

3. LIBRARY BUILDINGS AND EQUIPMENT (1) II

Professor Ross

In this course the following subjects are discussed: principles in library planning; reading of architect's plans; the planning of various types of library; heating, ventilation, and lighting; furniture and equipment. The lectures are illustrated by specially prepared diagrams. Students are required to work out simple planning problems illustrating topics considered in the course.

ADMINISTRATION OF LIBRARIES

This group of courses deals with the organization and successful operation of libraries of different types. It is concerned with the place of the library in the community, the duties and opportunities of the librarian, and his relation to the governing authorities, staff, and readers. These courses form both framework and background for the more detailed instruction in specialized services.

4. PUBLIC LIBRARIES A. (2) I

Professor Coughlin

Deals with the development of public libraries and their relationship to city and state government. Consideration is given to desirable standards for public library service, to public library legislation, and to the governing and financing of public libraries.

LIBRARY SCHOOL

5. PUBLIC LIBRARIES B. (2) II ELECTIVE

Professor Coughlin

Topics dealt with are the public library's responsibilities to its readers; the measurement and evaluation of its services and the interpretation of these services to the user by means of annual reports and other library publications; exhibits and displays; and the preparation of the budget. Detailed study is made of the social structure of the community; the relation of the library to the agencies of adult education; readers' advisory work and discussion groups and the use of records, films, radio and television. The organization and operation of county and regional library services in Canada and other countries is included.

6. COLLEGE AND UNIVERSITY LIBRARIES (2) II ELECTIVE

Professor Astbury

The problems of organization and growth are considered, including service to undergraduates, research students, faculty members and departmental libraries; special collections and reading rooms; teaching the use of the library; the allocation of funds; the use of micro-materials and such technical processes as differ from those in public and other libraries.

7. SPECIAL LIBRARIES (2) II ELECTIVE

Miss Anderson

This course is designed to present the purpose and point of view of the special library and to discuss the adaptation of general library techniques to its needs. Special attention is paid to the organization and administration of libraries in business and industry. Research methods and sources of information peculiar to selected fields are surveyed and discussed.

8. LIBRARY WORK WITH CHILDREN (2) II ELECTIVE

Professor Coughlin

This course shows the adaptations necessary in cataloguing and classification, reference work, book selection, and general administration to serve the needs of libraries for children and young people. Children's literature from the historical point of view is reviewed; modern illustrators and modern authors are discussed. Special problems of the school library are considered. The lectures are supplemented by story telling, and by practical work in, and visits to, children's libraries.

II. ACQUISITION AND CARE OF LIBRARY MATERIALS

The purpose of these courses is to train the future librarian in the principles of wise, economical, and adequate provision of books, periodicals, pamphlets, films, phonograph records, etc., for library use, and the best modern technique to be applied in recording them and in making them available to the public.

DESCRIPTION OF COURSES

9. TECHNICAL PROCESSES (2) I

Professor Astbury

Acquisitions. Deals with the acquisition of books, periodicals and other materials, by purchase, gift and exchange. Trade bibliographies are examined in detail, and sources for obtaining both new and second-hand books are discussed. The various routines followed and records kept by the acquisitions department are studied.

Circulation. Charging systems used by libraries of various types are studied in detail, with some consideration of the history of circulation procedures and also recent innovations. Other routines and regulations, statistics, shelf work, and the administration of the circulation department are discussed.

Binding. A brief survey of methods of binding, repair and preservation of library materials; the organization, routines and records of the library binding department with special reference to the collating of periodicals and other material.

10. CATALOGUING AND CLASSIFICATION (4) I (3) II

Professor Murray and Miss Anderson

The principles and purpose of classification and cataloguing are studied with a view to their application in libraries of different types and sizes. The Dewey Decimal Classification and the Library of Congress Classification are carefully studied. Special attention is also paid to the care of audio-visual materials.

11. CATALOGUING AND CLASSIFICATION (2) II ELECTIVE *Professor Murray*

The history and theory of classification are considered; the Universal Decimal Classification, the Bliss Bibliographic and Ranganathan's Colon Classification schemes are examined; the problems of subject analysis and of re-cataloguing and re-classification are considered as well as the organization and administration of cataloguing service. New developments for the storage and retrieval of information are also discussed, e.g. co-ordinate indexing, punched card systems, etc.

III. SELECTION AND USE OF LIBRARY MATERIALS

The needs of the reader are explained and provided for by a carefully planned study of the subject content of books as well as the adaptation of non-book materials to practical use in libraries of various types.

12. SELECTION OF BOOKS AND OTHER MATERIALS (3) I (2) II *Professor Coughlin*

This course deals with methods of selecting books, films, records, etc. for various types of libraries, communities, and readers. Representative books of all classes are examined for their literary value as well as their physical make-up, and various editions, translations, and series are compared.

LIBRARY SCHOOL

The student becomes familiar with the general and special printed aids to selection; the characteristics and specialties of publishing houses; and the problems of authorship, copyright, and censorship.

Training is given in book evaluation, annotation, and written and oral book reviewing.

13. REFERENCE MATERIALS AND METHODS (3) I (4) II *Professor Astbury*

The purpose of the course is to give a practical understanding of efficient reference service, the administration of a reference department and a critical knowledge of reference materials.

In the first term general basic reference books are studied. Printed bibliographies of all kinds are considered and practice is given in dealing with questions requiring bibliographical research. The second term is devoted to the reference materials of the humanities, social sciences, biological sciences and physical sciences. Particular attention is paid to the special approach needed for work in each field. Every student is required to make a special study of the reference sources in one subject area.

14. GOVERNMENT PUBLICATIONS (2) II ELECTIVE *Professors Ross and Murray*

Deals with Canadian, British, and United States publications; some attention also being given to foreign documents, and United Nations and UNESCO publications.

15. SERIALS

A brief sketch of the historical development of serials is given; study is made of the various types of serials published to-day, such as popular magazines, technical journals, house organs, and the publications of societies and institutions.

A systematic survey is made of problems in the selection and ordering of serials in English and foreign languages; checking and claiming; circulation, binding, and storage; exchange of duplicates and completing of sets.

This course will be given in the present session in conjunction with Book Selection, Cataloguing and other courses.

16. BIBLIOGRAPHY AND RESEARCH METHODS (1) I

Professor Ross

Training is given in the preparation of a research paper and in the compilation of an annotated bibliography.

IV. FIELD WORK

VISITS TO LOCAL LIBRARIES

The following libraries in Montreal are available for observation and many are used regularly by the students.

Public Libraries: Montreal Public Library and its branches; Westmount Public Library; Fraser-Hickson Institute; Mechanics' Institute.

Special Libraries: Divinity Hall Library; Osler Library (Medicine); Purvis Hall Library (Commerce); Montreal Museum of Fine Arts Library; also the libraries of National Film Board, Bell Telephone Company, Sun Life Assurance Company, Royal Bank of Canada, Shawinigan Water and Power Company, Aluminum Company of Canada, International Civil Aviation Organization, Canadian Broadcasting Corporation, Pulp and Paper Research Institute.

College and University Libraries: McGill University (Redpath) Library; Macdonald College Library; Sir George Williams University Library; Bibliothèque de l'Université de Montréal.

Children's Libraries: Montreal Children's Library; Westmount Public (Children's) Library; Fraser-Hickson Children's Library; Notre Dame de Grace Children's Library; Montreal Public Library and its branches; the libraries of Montreal High School, Lachine High School, Westmount Junior High School, Fairmount School, and Commission des Ecoles Catholiques de Montréal.

LIBRARY VISITS TO OTHER CITIES

A visit to other cities in Canada, with a programme of conducted visits to libraries, is a required part of the course. This illustrates the practical application of subjects taught. Each student is required to prepare a report and to take part in class discussion on methods observed.

LIBRARY EXPERIENCE

Work under supervision in a library is required during the session, in order that the student may acquire some appreciation of library service as a whole under everyday conditions.

LIBRARY SCHOOL

DEGREE OF MASTER OF LIBRARY SCIENCE

The candidate must hold the degree of Bachelor of Library Science, or an equivalent degree, from an accredited Library School approved by McGill University. This degree must represent a fifth year of academic study in which the candidate has obtained at least a B average. Competence to undertake graduate study must have been demonstrated and at least two years of professional library experience is required. The student must show evidence of a reading knowledge of at least one language other than English before the degree is granted. The French language is recommended but another language may be accepted if appropriate to the work which the candidate intends to undertake. If courses taken previously by the candidate are considered inadequate for the graduate courses offered he may be required to undertake some additional courses in the Library School or elsewhere in the University.

A minimum of one full session or two half sessions of resident study at McGill University is required. Pass mark in each subject is 65 per cent.

Limited travel funds for research and attendance at occasional seminars will be available at the discretion of the Director.

Each course is conducted on the seminar plan under the direction of a member of the Library School staff. Specialists, who give one or several seminars include the following: Miss Edna Hunt, Assistant Librarian, National Research Council, Ottawa; Miss Ruth MacDonald, National Library of Medicine, Washington; Miss Mary Herrick, Boston University; Mr. Wyllis Wright, Williams College; Dr. Maurice Tauber, Columbia University; Mr. Charles D. Kent, Public Library and Art Museum, London, Ont.; Dr. Ralph Shaw, Rutgers University; Dr. Mortimer Taube, President, Documentation Inc., Washington, D.C.; Mr. John Archer, Legislative Librarian and Provincial Archivist, Province of Saskatchewan; Dr. J. Zweig, Sir George Williams University; Dr. Alice Bryan, School of Library Science, Columbia University; Miss Constance Winchell, Columbia University Library; Mr. Richard Angell, Library of Congress, Washington; and the following members of the staff of McGill University—Dean H. N. Fieldhouse, Dean of Arts and Science; Professor David Munroe, Director of the Institute of Education; Professor H. R. C. Avison, Director of Adult Education Services; Dr. Aileen Ross, Department of Sociology.

COURSES

Required

- A. Thesis—3 copies when completed should be presented to the office of the Dean of Graduate Studies and Research on dates specified in the General Information Pamphlet.
- B. Research methods in library science.

DEGREE OF M.L.S.

Elective (the equivalent of 2 full courses must be taken. These may not all be available in any one year. Inquiries should be made at the Library School office).

- C. Canadiana; archival and historical materials, their care and use.
- D. Documentation; the acquisition and retrieval of research material. (Half course.)
- E. Government documents. (Half course.)
- F. Serials. (Half course.)
- G. Cataloguing and classification; problems and developments.
- H. The library in the community.
- I. Advanced reference methods and materials. (Half course.)
- S. A special subject may be taken in another Department of the University provided that the candidate has the qualifications normally required for advanced work in that field. Special permission must first be obtained from the Dean, the Director of the School and the Chairman of the Department concerned.

Preliminary application should be made to the Director of the Library School before August 15th, and formal application papers must be completed and received by the Dean of the Faculty of Graduate Studies and Research before September 9th.

FEES

One session full time study	\$500.00
One session half time study.....	250.00
Late registration fee.....	5.00
Instalment fee.....	5.00
Late payment fee	2.00

Payment may be made in two instalments in October and January.

SPECIAL DATES

1960

September 21st, Weanesday. Last day for receiving sessional registration forms in the Dean's Office, Faculty of Graduate Studies and Research.

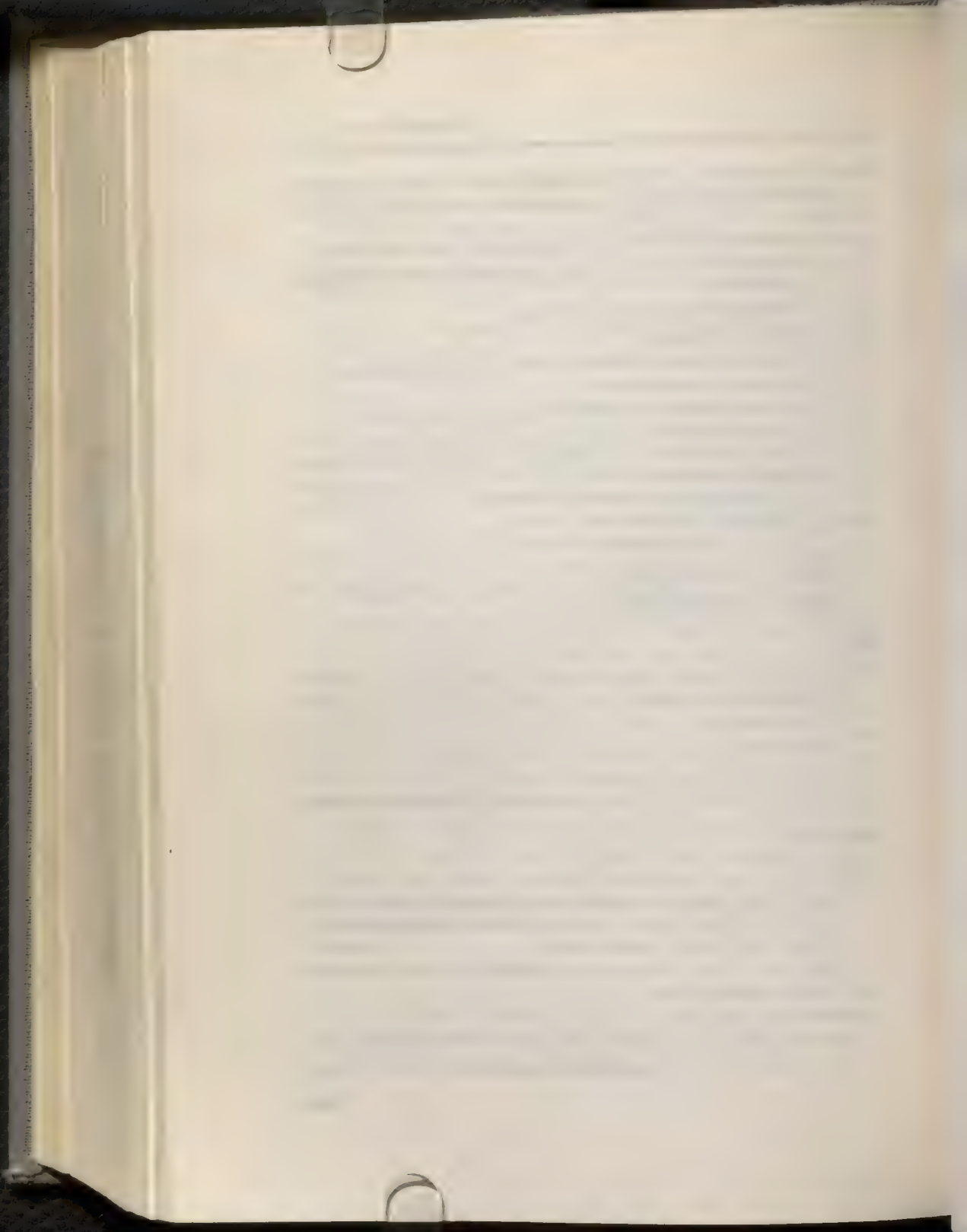
September 26th, Monday. Lectures begin.

October 21st, Friday. Last day for registration at the Registrar's Office and for payment of fees.

1961

April 13th, Thursday. Last day for filing theses for Spring Convocation.

August 24th, Thursday. Last day for filing theses for Fall Convocation.





McGill University



Montreal

School for Graduate Nurses

Beatty Memorial Hall
1960-1961

PUBLICATIONS

The following official publications are issued by the University and may be obtained from the Registrar's Office.

Announcements of Faculties and Schools as follows:

General Announcement

School Certificate Examinations

Scholarships, Bursaries, and Loan Funds

Faculty of Arts and Science (Degrees in Liberal Arts, and in Pure Science. There is a separate Announcement for the School of Commerce.)

Faculty of Medicine

Faculty of Medicine Postgraduate Courses

Faculty of Dentistry

Faculty of Engineering (Degrees in Engineering and in Architecture)

Faculty of Law

Faculty of Music

Faculty of Divinity

Faculty of Graduate Studies and Research

School of Commerce

Library School

School for Graduate Nurses

School of Physical and Occupational Therapy

School of Social Work

Macdonald College (Faculty of Agriculture and School of Household Science)

Institute of Education

French Summer School

Extension Courses

The Directory of Staff (University and Faculty administrative officers, standing committees, and officers of instruction)

The Calendar (available for distribution only to libraries and officials of certain institutions)

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School for Graduate Nurses

The School for Graduate Nurses is under
the administrative jurisdiction of the Faculty
of Medicine.

ADMINISTRATIVE OFFICERS

F. CYRIL JAMES, Chevalier de la Légion d'Honneur, B.Com., M.A., Ph.D.,
D.Sc., D. de l'U., D.C.L., LL.D., F.R.S.C. *Principal*

DAVID L. THOMSON, B.Sc., M.A., Ph.D., LL.D., F.C.I.C., F.R.S.C.
Vice-Principal

LLOYD G. STEVENSON, B.A., M.D. (Western), Ph.D. (Hopkins)
Dean of the Faculty of Medicine

RAE CHITTICK, B.S. (Columbia), M.A. (Stanford), M.P.H. (Harvard), LL.D.
(Alberta), R.N. *Director of the School for Graduate Nurses*

JOHN H. HOLTON, B.Com. *Secretary of the Board of Governors*

COLIN M. MACDOUGALL, D.S.O., B.A. *Registrar*

G. A. GRIMSON, B.Com. *Comptroller*

ADVISORY COMMITTEE

DEAN LLOYD G. STEVENSON, *Chairman*

MISS RAE CHITTICK

PROFESSOR FRANK C. MACINTOSH

MISS EILEEN C. FLANAGAN

DR. C. A. ROBERTS

MISS HELENE LAMONT

MISS ROSELYN SMITH

MRS. ALASTAIR MACLEOD

PROFESSOR R. P. VIVIAN

SCHOOL FOR GRADUATE NURSES OFFICE

BEATTY MEMORIAL HALL

1266 Pine Avenue West

Montreal 25, P.Q.

Telephone—VI 4-6311

GRADUATE NURSES

STAFF OF SCHOOL FOR GRADUATE NURSES

- RAE CHITTICK, B.S. (Columbia), M.A. (Stanford), M.P.H. (Harvard), LL. D. (Alberta), R.N. *Flora Madeline Shaw Professor of Nursing, Director*
- MOYRA ALLEN, M.A. (Chicago), B.N., R.N. *Associate Professor of Nursing*
- ELIZABETH LOGAN, B.Sc. (Acadia), M.N. (Yale), R.N. *Assistant Professor of Nursing*
- HELEN GEMEROY (Mrs. G. A.), B.A. (Sir George Williams), M.A. (Columbia), R.N. *Assistant Professor of Nursing*
- KATHLEEN L. MAXWELL (Mrs. B.E.), B.Sc. (N) (Alberta), M.N. (Washington), R.N. *Assistant Professor of Nursing*
- FLORA M. DEVANEY, B.Sc. (Hunter), M.A. (Columbia), R.N. *Lecturer in Nursing*
- JOAN C. MACDONALD, B.N., R.N. *Lecturer in Nursing*
- HELEN P. MCCALLUM, B.A. (Western Ont.), R.N. *Lecturer in Nursing*
- DOROTHY ROWLES, B.N., R.N. *Lecturer in Nursing*
- LYDIA H. POPE *Librarian*

OTHER OFFICERS OF INSTRUCTION IN THE SCHOOL

- MARION BAIN (Mrs. D. C.), M.Sc. (Columbia), B.H.S. *Assistant Professor of Health and Social Medicine*
- MARK PHILIP BRYDEN, S.B. (M.I.T.), M.Sc. *Lecturer in Statistics*
- MADELINE FLANDER, Cert. S.G.N., R.N. *Lecturer in Paediatric Nursing*
- EILEEN C. FLANAGAN, B.A., R.N. *Director of Nursing, Montreal Neurological Institute*
- DONALD S. FLEMING, D.P.H. (Tor.), B.A., M.D., C.M. *Associate Professor of Health and Social Medicine*
- HELENE LAMONT, B.N., R.N. *Director of Nursing, Royal Victoria Hospital*
- ISABEL MACLEOD (Mrs. A. W.), B.Sc. (N) (Alta.), M.A. (Columbia), R.N. *Director of Nursing, Montreal General Hospital*
- A. W. MACLEOD, B.Sc., M.B., Ch.B., D.P.H. (Glasgow), Dip. Psych. Med., M.R.C.P. (London) *Assistant Professor of Psychiatry and Lecturer in Health and Social Medicine*

GENERAL INFORMATION

CHARLES WILLIAM MACMILLAN, M.D., C.M., D.P.H.

Associate Professor of Health and Social Medicine

MARGARET E. NIX, B.A. (Man.), M.P.H. (Mich.), Ph.D. (Mich.)

Associate Professor of Health and Social Medicine

GENEVA PURCELL, B.N., R.N.

Supervisor of Nursing, Royal Victoria-Montreal Maternity Hospital

PATRICIA RICHARDSON (Mrs. R. R.), B.A. (Toronto), M.A. (Dalhousie)

Lecturer in Psychology

ROSELYN SMITH, B.N., R.N. *Director of Nursing, Montreal Children's Hospital*

J. GILBERT TURNER, M.D., C.M., M.Sc., F.A.C.H.A., Executive Director,
Royal Victoria Hospital *Lecturer in Hospital Administration*

R. P. VIVIAN, M.D. (Tor.) *Professor of Health and Social Medicine*

A. H. WESTBURY, F.I.H.A. (Eng.), F.C.I.S., Executive Director, Montreal
General Hospital *Lecturer in Hospital Administration*

GENERAL INFORMATION

The School for Graduate Nurses was established in 1920 to prepare well-qualified graduate nurses for positions of leadership in hospital and community nursing. The various programmes in administration, teaching, supervision and public health nursing have attracted graduate nurses from every province in Canada and from several foreign countries. In 1957, a new programme in basic nursing was introduced to prepare high school graduates for the many positions open to well-qualified nurses. This programme combines general education with professional courses over a period of five years from McGill Junior Matriculation and leads to the degree of Bachelor of Science in Nursing. Graduates of this programme are qualified for staff positions in public health agencies as well as in hospitals.

The School for Graduate Nurses, therefore, offers two types of programmes:

- (1) Diploma and degree courses for graduate nurses. These courses are described on pages 3221 to 3225.
- (2) A five-year course for high school graduates leading to the degree of B.Sc.(N.) This programme is described on pages 3209 and 3210.

PROGRAMMES FOR GRADUATE NURSES

The School offers programmes of study for graduate nurses in four main areas. These are as follows:

GRADUATE NURSES

- I: **Teaching and Supervision in Schools of Nursing:** Students selecting this field are prepared for positions as head nurses, ward supervisors, or classroom and clinical teachers. Students are given the opportunity to select one of a number of fields for specialization. These are the Teaching of the Basic Sciences*, Medical-Surgical Nursing, Psychiatric Nursing, and Maternal and Child Health (these students do major work in either Obstetric or Paediatric Nursing).
- II: **Public Health Nursing:** This programme is designed to prepare nurses for staff positions in public health organizations.
- III: **Administration and Education in Hospitals and Schools of Nursing:** This programme is open to experienced nurses who wish to qualify as directors of schools of nursing or directors of hospital nursing service.
- IV: **Administration and Supervision in Public Health Agencies:** This programme prepares nurses with satisfactory experience to participate in supervision and administration in public health organizations.

COURSES LEADING TO A DIPLOMA

Students who successfully complete a programme of study in area I or II may be granted a diploma in the field of their specialization. The minimum entrance qualification to enrol in the diploma programme is McGill Junior Matriculation or its equivalent.

Of the ten papers required for McGill Junior Matriculation the compulsory subjects are English, History, Algebra or Advanced Arithmetic, and Chemistry or Biology. Chemistry and Biology should *both* be taken if possible. The other subjects of the examination are entirely optional. The general average for all papers must be at least 65%. (The equivalent of these papers taken in public examinations recognized by the University will be satisfactory.)

COURSES LEADING TO THE DEGREE OF BACHELOR OF NURSING

Students wishing to qualify for the degree of Bachelor of Nursing must first complete a programme of study in either area I or II which represents the first year of the work for the degree. These programmes are basic to the more advanced work in public health nursing, nursing education, and administration in hospitals and schools of nursing.

Entrance qualification for the degree programme is either McGill Junior Matriculation or McGill Senior Matriculation or their equivalents, but those students who enter with Junior Matriculation standing must

*Open only to students in degree programme.

complete three years of study before qualifying for the degree of Bachelor of Nursing. One year of this time will be spent in general education which must be comparable to that required to pass with satisfactory standing the appropriate papers in the McGill Senior School Certification Examinations. The subjects required are English, Chemistry, and any three of the following: History, Biology, French, Spanish, German, Latin, Mathematics, Physics.

PART-TIME STUDY

Nurses who live in or near Montreal may register as partial students in the regular day programme or in the evening classes offered through the Department of Extension of the University. By special arrangement a one-year programme may be extended over two years for students who are unable to attend full time.

PROGRAMME IN BASIC NURSING

This is a programme for high-school graduates who wish to prepare themselves for a career in nursing. The time necessary to complete the requirements is five years. Successful candidates are granted the degree of B.Sc.(N). The first year is devoted to academic courses with emphasis on the basic sciences. The following four years consist of both academic and professional courses. Professional courses include classroom instruction and clinical experience in the McGill teaching hospitals and in selected public health agencies in the City of Montreal. In the final year emphasis is placed on teaching methods and administrative skills.

Students may be admitted into the basic nursing programme after passing the ten required papers of the McGill Junior Certificate Examination, or their recognized equivalents, with an overall average of at least 65%. In the University's own examinations the following papers are required:

No. of Papers	Subject
2	English
1	General History
2	Modern Language
2	{ Elementary Algebra
	{ Elementary Geometry
1	One of the following: Biology; Botany; Chemistry; Physics
2	Either Latin or Spanish or French or German (if not already chosen) or any two of the following papers not already chosen: (a) Intermediate Algebra (b) Trigonometry

GRADUATE NURSES

- (c) Biology *or* Botany (Biology and Botany may not both be chosen)
- (d) Chemistry
- (e) Geography
- (f) Physics
- (g) British History *or* Canadian History
- (h) Music *or* Art (Music and Art may not both be chosen)

10 papers

The above papers are the normal requirements for admission, but students who do not have exactly these requirements may be admitted, provided their high school record is exceptionally good and they show evidence of preparation and ability to meet successfully the demands of the course.

RESOURCES AND FACILITIES

Courses in nursing education are provided in the School. Other courses are available through the Faculty of Arts and Science and the Faculty of Medicine (including the Department of Health and Social Medicine), as well as through other Schools and Departments within the University.

The School, administered by the Faculty of Medicine, is located in Beatty Memorial Hall, which provides classroom space, lunch facilities, and other amenities. An up-to-date professional library is maintained at the School under the direction of a full-time librarian. Students have access to other libraries in the University.

Excellent community facilities are available for the observation of nursing in all its branches and for practice in teaching, supervision, and administration in hospitals, schools of nursing, and public health nursing fields.

The resources of the following organizations are available: the Royal Victoria Hospital (including the Allan Memorial Psychiatric Institute, and the Royal Victoria-Montreal Maternity Hospital); the Montreal General Hospital; the Montreal Children's Hospital; the Royal Edward Laurentian Hospital (tuberculosis) with its clinics; the Verdun Protestant Hospital; the Queen Mary Veterans Hospital; the Montreal Neurological Institute of McGill; St. Mary's Hospital; and the Queen Elizabeth Hospital, as well as other hospitals in Montreal.

The official and voluntary health agencies of the city and also clinics (both public and private) afford ample opportunities for study and field

ENTRANCE REQUIREMENTS

experience in the various aspects of community health. These resources include the Victorian Order of Nurses, the Child Health Association, the municipal health departments of Greater Montreal, hospital out-patient departments, industrial health services, the Mental Hygiene Institute, the Family Welfare Association, the Children's Service Centre, nursery schools and day nurseries, child guidance clinics, and other organizations concerned with the welfare of individuals and families.

ENTRANCE REQUIREMENTS

GRADUATE NURSES

All applicants must have completed the basic nursing course in an approved school of nursing, be registered in the province or country from which they come, and meet the requirements for the programme selected.

For admission to the diploma courses candidates must have passed in the required papers of the McGill Junior School Certificate Examination or their recognized equivalents (see page 3208). Candidates for a degree must have met the requirements of the First year in the Faculty of Arts and Science, or have passed in the required papers of the McGill Senior School Certificate Examinations or their recognized equivalents (see page 3208).

BASIC NURSING

High School Graduates who wish to enrol in the programme leading to the degree of B.Sc.(N) must have passed in the required papers of the McGill Junior School Certificate Examinations or their recognized equivalents (see page 3209).

TRANSFER OF CREDITS

Consideration will be given to transfer of credits for work completed in another university if an official transcript of the student's work is sent directly to the School by the officers of the institution in which the work was completed.

APPLICATION FOR ADMISSION

All applications must be made on forms which may be obtained from the School for Graduate Nurses, McGill University, and must include a photograph of passport size. Official transcripts from their School of Nursing may be submitted by graduate nurses. All documents, including an official transcript of the student's academic preparation, are to be forwarded to the Director of the School.

GRADUATE NURSES

REGISTRATION

All students will register at Beatty Hall between the hours of 9 a.m. and 4 p.m. as follows:

First Year

Students in the First year of the Graduate Nurse Programme are required to complete a period of field work during September. Registration for them will take place on Thursday, September 1.

For First year students in the Basic Programme registration will take place on Thursday, September 15.

Upper Years

All other students will register on Friday, September 23.

EXAMINATIONS

Final examinations are held for first-term half courses in December and January, and for full courses and second-term half courses in April and May. Mid-term examinations for full courses may be held in January depending upon the instructor.

Results of examinations are recorded according to class, as follows: Class I, 80% to 100%; Class II, 65% to 79%; Class III, 50% to 64%.

A student who has failed in a final examination and has been given permission by the Director of the School to write a supplemental examination, must write this supplemental during the following September. Written application must be made before August 15. A fee of \$10.00 for each supplemental paper is payable to the Cashier as soon as the application has been approved. A student who wishes to write a supplemental examination outside McGill must make application to the Director to do so before August 1st. There is an additional fee of \$10.00 for establishing such an outside centre.

HEALTH SERVICES

All students are required to have a medical examination and a chest X-ray by the University Health Service. There are no exceptions to this rule. Provision is made for health service to students *during the session* but not during vacations. (See *General Information* pamphlet for details.)

Students in the Basic Programme are required to have inoculations for typhoid, paratyphoid, tetanus, diphtheria, poliomyelitis, and tuberculosis. Students should obtain these inoculations from their own physician before beginning the programme.

FEES

The University reserves the right to make changes without notice in its published schedule of tuition, board and residence, and other fees.

University fee..... \$500.00

If paid by instalments:

First instalment..... \$252.50

Second instalment..... 252.50

Instalment fee (included in above)..... 5.00

Late payment fee..... 2.00

Fees are due and payable at the Accounting Office in Dawson Hall, between the hours of 9 A.M. and 4 P.M. on or before September 27. A late fee of \$2.00 is charged for payment after this date. As soon as possible after the prescribed dates the Chief Accountant will send to the Director of the School a list of the registered students who have not paid their fees. The Director will thereupon suspend such students from further attendance until the fees are paid or a satisfactory arrangement is made with the Chief Accountant.

BOARD AND RESIDENCE

There are no University residence facilities for graduate nurse students of the School for Graduate Nurses. Every assistance is given to those seeking accommodation through a Rooms Registry located at the McGill Union. Application for rooms must be made in person from August 29 to October 1. The cost of board and lodging varies from \$65.00 - \$85.00 per month. The minimum cost of a furnished room with kitchen facilities is approximately \$50.00 per month.

Students in the Basic Nursing Course whose homes are outside of Montreal live at Royal Victoria College. When application is made to the School for Graduate Nurses, application for residence must be made also to the Warden of Royal Victoria College, such application to be made before May 31. Forms for this purpose may be obtained from the College, from the Registrar's Office, or from this School.

Those students who do not reside with their parents or guardians in Montreal and who wish to live outside the University residence are required to submit their plans for residence in writing to the Warden and to obtain written approval. Students in this category who are entering the University for the first time must in all cases fill out residential application blanks when the academic application is submitted.

During the summer period students live in the nurses' residence of the hospital in which they are obtaining their experience. A charge of \$15.00 per week is made for accommodation in the first summer only.

GRADUATE NURSES

EXPENSES

APPROXIMATE COST OF THE COURSE

University fees.....	\$500.00
Books and incidentals.....	approx. 50.00
Board and room.....	\$700.00 to 900.00
Royal Victoria College.....	\$730.00 to \$760.00 (session)
(students in the Basic Course)	

Field work may involve additional expense for travel and living which the student must consider in estimating expenses.

UNIFORMS

All students in the Graduate Nurse Programme are advised to have at least two white uniforms. Full white uniform is required for field experience in hospitals and for Convocation. For students in public health nursing special field uniforms are available for rental at the School. These students should bring white collars and any plain dark hat and coat. Brown or black walking shoes with low heels are required. Students in public health nursing may have field work in hospitals, in which case white uniforms are worn.

Students in the Basic Nursing Programme are required to supply themselves with the School uniform obtained through the School.

BURSARIES AND SCHOLARSHIPS

There are a number of bursaries and scholarships open to all students registering in the University. Information may be obtained from the Registrar's Office. Applicants must meet the University entrance requirements for Junior Matriculation. The following bursaries are open to graduate nurses:

1. ALEXANDRA HOSPITAL

The Board of Governors offers a scholarship in the form of full maintenance at the hospital during a year's study at the School for Graduate Nurses. Only members of the hospital nursing staff are eligible.

2. ALUMNAE ASSOCIATION OF THE SCHOOL FOR GRADUATE NURSES

In memory of Dr. Marion Lindeburgh the Alumnae Association has established an annual scholarship of \$500.00. This scholarship is open to graduate, registered nurses who wish to study at the School for Graduate

SCHOLARSHIPS, LOANS, BURSARIES

Nurses, McGill University, and who meet the entrance requirements. Applications should be submitted by June 15, 1960, to the Chairman of the Scholarship Committee, Alumnae Association, 1266 Pine Avenue West, Montreal, Quebec.

3. ASSOCIATION OF NURSES OF THE PROVINCE OF QUEBEC

(a) Two bursaries of \$1,200 are customarily offered to practising members in good standing of the Association of Nurses of the Province of Quebec, whose qualifications are acceptable to a university. Any approved course may be selected.

(b) District No. 11 (English Chapter) Association of Nurses of the Province of Quebec offers a bursary of \$1,500 to a member of the Chapter whose qualifications are acceptable to the University. The nurse who accepts the bursary will be expected to work in the Province of Quebec for two years following the completion of her course.

4. MONTREAL CHILDREN'S HOSPITAL SCHOOL OF NURSING

The Board of Governors offers a scholarship in the form of lodging at the hospital during one year's study at the School for Graduate Nurses. Those accepting the scholarship are required to work for one year at the Montreal Children's Hospital on completion of the course.

5. MONTREAL GENERAL HOSPITAL SCHOOL OF NURSING

Bursaries are provided annually by the Montreal General Hospital to graduate nurses for study to prepare them for administrative and teaching positions.

6. ROYAL VICTORIA HOSPITAL SCHOOL OF NURSING

(a) The *Mabel F. Hersey Scholarship* is given annually by the Board of Governors for a year of postgraduate study at the School for Graduate Nurses, McGill University.

(b) The *Emma Thomas Scholarship* is offered annually for postgraduate study.

(c) The *Ida McGregor Scholarship* is offered annually for postgraduate study.

(d) A bursary of \$1,000 donated by the Woman's Auxiliary is to be awarded to a senior member of the staff for postgraduate study.

7. VICTORIAN ORDER OF NURSES FOR CANADA

The Victorian Order of Nurses for Canada offers bursaries of \$1,000 to nurses to assist them in taking preparation in Public Health Nursing. Following their course, the recipients are obligated to work one year for the Victorian Order in the area where their services are most urgently needed. Bursaries are also available to students in the final year of a basic degree course which includes preparation in public health nursing.

GRADUATE NURSES

8. QUEEN ELIZABETH HOSPITAL

The *Martha Warren Scholarship* of \$500.00 may be given, all or in part, to any Alumnae member, or members, who wish financial help for post-graduate study. Applications for this scholarship must be in on or before April 25th of each year. The nurse accepting this scholarship is expected to work in the Queen Elizabeth Hospital for one year following completion of her course provided there is a position open in her field of study.

9. REDDY MEMORIAL HOSPITAL

The Board of Directors offers a bursary to assist with a year's study at the School for Graduate Nurses. Only graduates of the School of Nursing or Staff Nurses of the Hospital are eligible. They should apply to the Director of Nursing.

10. GOVERNMENT BURSARIES

A limited number of bursaries are given by the Province of Quebec to nurses who wish to remain in the province, and who have been accepted for admission to the School. Application for a bursary may be made through the School. Applications for bursaries are considered each year at the end of March.

W. K. KELLOGG FOUNDATION LOAN FUND

Through the generosity of the Foundation, this fund has been established to assist graduate nurses who have unexpected expenses while registered in courses at the School. For further particulars applicants should consult the Director of the School for Graduate Nurses.

PROGRAMMES OF STUDY FOR GRADUATE NURSES

LEADING TO A DIPLOMA

All students in the First year are required to take the prescribed core courses which are fundamental to all areas of nursing. In addition, students select courses which fulfil the requirements of their major field of interest. Upon the completion of one year of study students are granted a diploma.

LEADING TO THE DEGREE OF BACHELOR OF NURSING

Students who have met the requirements for the diploma may proceed with the Second year of the degree programme, providing such students have McGill Senior Matriculation standing or its equivalent.

FIELD EXPERIENCE

FIRST YEAR

Concurrent field experience forms part of a number of courses. In addition, the months of September and May are devoted to field experience.

Field Experience in Public Health Nursing: The normal requirement for students without previous public health experience is eight weeks. This requirement is adjusted to meet individual needs, and students are not expected to repeat experience which has been gained under adequate supervision. Ordinarily there are two weeks during September and six weeks following the examinations in the spring.

Field Experience in Teaching and Supervision in Schools of Nursing: Students enrolled in this programme will have six weeks of field experience: two weeks in September and four weeks following examinations in the spring.

SECOND YEAR

All students in the Second year are expected to complete two months of field experience during May and June.

GRADUATE NURSES

FIRST YEAR

CORE COURSES (REQUIRED OF ALL STUDENTS IN THE FIRST YEAR)

SOCIOLOGY 210

PSYCHOLOGY 21

NG-11 COMMUNITY ORGANIZATION

NC-11 PRINCIPLES OF LEARNING AND METHODS OF TEACHING

NC-12 NUTRITION

NC-13 HUMAN GROWTH AND DEVELOPMENT

COURSES IN FIELD OF SPECIALIZATION

Basic Sciences and Clinical Teaching

NA-11 WARD MANAGEMENT AND SUPERVISION

Two full courses from those listed below. (Students in the degree programme preparing to teach the basic sciences do not take NA-11 and are required to take two sciences. Students in the clinical fields select a clinical course and one additional course. All students entering with Junior Matriculation are strongly advised to select English):

NS-12 Medical-Surgical Nursing

NS-14 Psychiatric Nursing

NS-16 Maternal and Child Health (Students do major work in either Obstetric or Paediatric Nursing)

Physics 11, Chemistry 11, Biology 100

Chemistry 22a (for students with Senior Matriculation standing in Chemistry)

English, History, Philosophy

(See Announcement of Faculty of Arts and Science.)

Public Health Nursing

NS-11 PUBLIC HEALTH NURSING

NC-14 PUBLIC HEALTH PRACTICE

One full course from those listed below:

Science

English

History

Philosophy

(See Announcement of Faculty of Arts and Science.)

PROGRAMMES OF STUDY

SECOND YEAR

Nursing Education (Advanced), and Administration in Hospitals and Schools of Nursing.

CORE COURSES: (REQUIRED OF ALL STUDENTS REGISTERED IN TEACHING IN SCHOOLS OF NURSING AND ADMINISTRATION IN HOSPITALS AND SCHOOLS OF NURSING)

SOCIOLOGY 301, 302 or 303

POLITICAL SCIENCE 211G or 212

NC-25 PHILOSOPHY OF EDUCATION

INDUSTRIAL RELATIONS 441

NC-23 INTRODUCTION TO STATISTICS

NC-28 EPIDEMIOLOGY

COURSES IN FIELD OF SPECIALIZATION

Basic Sciences and Clinical Teaching

NE-21 CURRICULUM IN SCHOOLS OF NURSING

One full course from the following:

Physiology 22 (See prerequisite)

Sociology

Economics

English

History

Philosophy

Modern Language

(See Announcement of Faculty of Arts and Science.)

NG-21 STUDIES AND PROJECTS IN THE FIELD OF SPECIALIZATION:

Teaching the Sciences,

Medical-Surgical Nursing,

Maternal and Child Health,

Psychiatric Nursing

(Field work necessary for the study in addition)

Administration in Hospitals and Schools of Nursing

NA-24 ADMINISTRATION IN HOSPITALS AND SCHOOLS OF NURSING

NC-27 HOSPITAL ADMINISTRATION

One full course from the following:

Physiology 22 (See prerequisite)

Sociology

Economics

English

History

Philosophy

Modern Language

(See Announcement of the Faculty of Arts and Science.)

NG-21 STUDIES AND PROJECTS IN THE FIELD OF SPECIALIZATION:

Administration of Hospital Nursing Service *or*

Administration in Schools of Nursing

(Fieldwork necessary for the study in addition)

GRADUATE NURSES

SECOND YEAR

Public Health Nursing (Advanced)—Administration and Supervision in Public Health Nursing.

CORE COURSES: (REQUIRED OF ALL STUDENTS REGISTERED IN ADVANCED WORK IN PUBLIC HEALTH NURSING)

SOCIOLOGY 301, 302 or 303

POLITICAL SCIENCE 211G or 212

NC-25 PHILOSOPHY OF EDUCATION

INDUSTRIAL RELATIONS 441

NC-23 INTRODUCTION TO STATISTICS

NC-28 EPIDEMIOLOGY

COURSES IN FIELD OF SPECIALIZATION

Administration and Supervision in Public Health Nursing

NA-21 ADMINISTRATION AND SUPERVISION IN PUBLIC HEALTH NURSING

One full course from the following:

Physiology 22 (See prerequisite)

Sociology

English

History

Philosophy

Modern Language

(See Announcement of the Faculty of Arts and Science.)

NG-21 STUDIES AND PROJECTS IN PUBLIC HEALTH NURSING
(Fieldwork necessary for the study in addition)

DESCRIPTION OF COURSES FOR GRADUATE NURSES

NURSING — GENERAL

NG-11 COMMUNITY ORGANIZATION

An analysis of changing patterns of home and community life and factors responsible for these changes; current health problems arising from social changes; progress in medicine and trends in nursing to meet community needs.

One hour, two terms.

Professor Chittick

NG-21 STUDIES AND PROJECTS IN THE FIELD OF SPECIALIZATION

In this course students make a study of a selected problem in nursing using simple research methods. Each student is expected to choose a problem for study which will be of interest and help in her special field of nursing. The course is conducted as a seminar with class discussions and individual conferences.

One and one-half hours, two terms.

Members of Staff

(Fieldwork necessary for the study in addition.)

NURSING — EDUCATION

NE-21 THE CURRICULUM IN SCHOOLS OF NURSING

This course is designed to develop an understanding of the factors which affect the curriculum in schools of nursing and the issues involved. The content includes the application of the principles of curriculum construction to the school of nursing curriculum—philosophy, purpose and aims of the school, formulation of objectives, selection, organization, and evaluation of learning experiences, methods of teaching, supervision, and guidance of students.

Two hours, two terms.

Professor Allen

NURSING — ADMINISTRATION

NA-11 WARD MANAGEMENT AND SUPERVISION

A study of administrative planning for the hospital ward as the unit of hospital administration, plans for patient care, controlling the environment, supplies and equipment, personnel, ward teaching as part of the

GRADUATE NURSES

administrative plan, the function of the ward in the educational programme of the student nurse; the principles of supervision applied to nursing education and nursing service in establishing a supervisory programme.

Three hours, second term.

Professor Gemeroy

NA-24 ADMINISTRATION IN HOSPITALS AND SCHOOLS OF NURSING

The scope and principles of administration, staffing and supervisory problems, orientation of personnel, in-service education, the organization of the school of nursing, recruitment and selection of students, school publicity, curriculum planning, housing of students, budgeting.

Two hours, two terms.

Professor Chitlick and special lecturers

NA-21 ADMINISTRATION AND SUPERVISION IN PUBLIC HEALTH NURSING

Principles of administration and supervision are applied to the field of public health nursing in studying official and voluntary health services. This course includes the planning and evaluation of services, methods of organization and financing, personnel management, human relationships, and supervisory functions with emphasis on staff and student education.

Two hours, two terms.

Professor Maxwell

(Concurrent field experience in addition.)

NURSING — SPECIALTIES

During the fall term all students in the first year participate in a course entitled General Nursing which is closely linked with the September field experience and is designed to assist students to identify the elements fundamental to all nursing, and so to broaden their understanding of the comprehensive nature of nursing. The course consists of presentations by staff members and special lecturers followed by group discussions and conferences. The hours devoted to this course constitute part of the time allocated to public health nursing and to the various clinical specialties.

NS-11 PUBLIC HEALTH NURSING

An introduction to the principles and methods of public health nursing practice; application of principles and methods in the development of maternal, infant, pre-school, school, industrial, and morbidity nursing services; the staff nurse in relation to administration and supervision.

Three hours; two terms

Professor Maxwell

(Concurrent field experience in addition.)

DESCRIPTION OF COURSES

NS-12 MEDICAL-SURGICAL NURSING

The course aims to develop a deep appreciation of the individual as a patient, the factors which affect his illness and recovery, and the effect of illness upon his family and the community. The content includes a study of the processes which assist in the maintenance of health, common deviations and the body's general reactions to these deviations. The course stresses the implications for nursing in the care of the general medical and surgical patient and the special needs as determined by his condition. Learning experiences are provided in the care of medical-surgical patients, teaching of medical-surgical nursing and related subjects, and in the supervision and guidance of students.

Three hours, two terms.

Professor Allen, Miss F. Devaney, Miss D. Rowles and special lecturers
(Concurrent field experience in addition.)

NS-14 MENTAL HEALTH AND PSYCHIATRIC NURSING

This course is planned for students who are interested in psychiatric nursing in general hospitals or in mental hospitals and for those who wish to increase their awareness of the mental health aspects of all nursing. The first term is devoted to the study of mental health concepts and the second term to present psychiatric thought and practice. Group discussions emphasize the role of the nurse and of nursing, and field experiences provide opportunity for application of this learning.

Three hours, two terms.

Professor Gemeroy, Miss H. McCallum and special lecturers
(Concurrent field experience in addition.)

NS-16 MATERNAL AND CHILD HEALTH NURSING

This course is planned for students who are interested in Obstetric or Paediatric Nursing. The first term is devoted to the study of the normal maternity cycle, the newborn, and growth and development of the child through adolescence. Time is spent in community agencies such as antenatal clinics, nursery schools, schools, and community centres. During the second term, students have an opportunity to apply their knowledge to the study of nursing methods and teaching in either Obstetric or Paediatric Nursing. The course includes lectures, conferences and clinics conducted by specialists in various fields.

Three hours, two terms.

Professor Logan, Miss J. Macdonald and special lecturers
(Concurrent field experience in addition.)

NURSING — COGNATE COURSES

NC-11 PRINCIPLES OF LEARNING AND METHODS OF TEACHING

A study of how we learn and an analysis of those methods of teaching that facilitate learning. General principles of curriculum planning.

Two hours, first term.

Professor Nix

GRADUATE NURSES

NC-12 NUTRITION

Recent advances in the field of nutrition; prevalence, causes, and prevention of malnutrition; current health problems involving nutrition.
One hour, first term. *Professor Bain*

NC-13 HUMAN GROWTH AND DEVELOPMENT

The course covers growth from the pre-natal stage to maturity and old age. The lectures concentrate on child development and emphasize the influence of such aspects of development as maturation, perception, emotional development, intelligence and socialization. During the second term considerable attention is given to mental health.
Two hours, two terms. *Mrs. P. Richardson*
Professor MacLeod

NC-14 PUBLIC HEALTH PRACTICE

The development and present status of public health in Canada and other countries; policy and function of national, provincial, and local health departments; role of the voluntary agency, legislation affecting health; vital statistics; epidemiology; planning community health programmes, rural and urban; maternal, infant, pre-school, and industrial health services, evaluation of health services.
Two hours, two terms. *Professor MacMillan*

NC-23 INTRODUCTION TO STATISTICS

This course is designed to develop an understanding of statistical methods and their application in nursing. The content presented includes: value and uses of statistical data; collection and tabulation of data; analysis of data using measures of central tendency, variability and reliability; presentation of data in text, tables and graphs, and the interpretation of data.

Two hours, first term. *Mr. Bryden and Staff*

NC-25 PHILOSOPHY OF EDUCATION

An introduction to the basic subject matter of educational philosophy; an historical analysis and interpretation of the more important elements in modern education derived from surveying the history of education; a study of critical issues in contemporary education.

Two hours, first term. *Professor Nix*

NC-27 HOSPITAL ADMINISTRATION

Principles of organization and administration applied to the hospital; committees, finance, purchasing, maintenance, housekeeping, personnel, medical and nursing services; administration of departments, health service, the school of nursing in the hospital.

Two hours, second term. *Dr. Turner*
Mr. Westbury

DESCRIPTION OF COURSES

NC-28 EPIDEMIOLOGY

The course covers the growth of epidemiology from a purely descriptive to an experimental science. The technique of epidemiological investigation is discussed. The place of epidemiology in the understanding of both infectious and non-infectious diseases is stressed, as well as the contribution the epidemiological approach can make to the appreciation of other problems affecting the health and well-being of the community.

Two hours, second term.

Professor Fleming

COURSES GIVEN IN OTHER FACULTIES

Students have an opportunity to select courses from those offered in the Faculty of Arts and Science as outlined in the various programmes. (See pages 3218, 3219, 3220.)

PROGRAMME OF STUDY IN BASIC NURSING

LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN NURSING

This programme combines general education at university level with the knowledge and skills essential to the practice of nursing. It is designed to make the best use of scientific and cultural courses to enrich the knowledge and develop the skills of young women interested in making an outstanding contribution in the field of nursing.

During the First year students complete the requirements of the First year of the B.Sc. course in the Faculty of Arts and Science, and, in addition, are introduced to the profession of nursing through a course of nine weeks which begins at the end of July. In the four subsequent years the programme combines both academic and professional courses with selected clinical experience in the McGill teaching hospitals and in public health agencies in Montreal. Additional hospital and public health experience is obtained during the summer months with the exception of one vacation month each year. Throughout the course the aim is to give the student breadth of understanding as a basis for sound nursing practice.

The programme meets the requirements for registration under the Quebec Nurses' Act. To obtain a licence to practise nursing on completion of the programme, students must provide legal evidence of their date of birth on entering the *first* nursing course.

GRADUATE NURSES

First year

English 100 and 100C
Mathematics 111
Chemistry 11
Physics 11
Biology 100

Summer Session:

Nursing 1a—9 weeks nursing
practice in hospital.

Second year

Anatomy 2
Physiology 22
Chemistry 22a
Psychology 21
Nutrition II
Nursing Ib and IIa

Summer Session:

Nursing IIb—4 months nursing
practice in hospital.

Third year

English (selected course)
Sociology 210
Psychology 33
Nutrition III
Bacteriology 31
Nursing IIc
Nursing IIIa

Summer Session:

Nursing IIIb—4 months nursing
practice in hospital

Fourth year

Sociology 301, 302 or 303
Elective from Faculty of Arts
and Science
Nursing IVa—Nursing practice
in hospital

Summer Session:

Nursing IVb and V—4 months
nursing practice in hospital.

Fifth year

Social Psychology 42
Elective from Faculty of Arts
and Science
Nursing VI—Nursing practice in
the community
Nursing VII—Nursing practice in
hospital.
Nursing VIII

Note: At the end of the first academic year students will have three months vacation before returning to take Nursing Ia. One month's holiday will follow each of the succeeding summer sessions.

DESCRIPTION OF COURSES IN BASIC NURSING

NURSING Ia and b—INTRODUCTION TO NURSING. This course is designed to introduce the student to the broad field of nursing and to the idea of the comprehensive nature of nursing care both within the hospital and in the community. Through individual and group discussion, demonstration and practice, she is assisted to care for the less acutely-ill patient and to

DESCRIPTION OF COURSES

develop some basic nursing skills. During observations in the community, emphasis is placed on the health needs of the individual, the factors influencing these needs and the resources available for meeting them.

(a) 10 hours class and 20 hours guided practice; 9 weeks, first summer.

(b) 1 hour class and 2 hours guided practice; Second year, first term.

Professor Allen, Miss Devaney and Miss Rowles

NURSING IIa, b and c—GENERAL NURSING. A study of the body's general reactions in disease and the principles underlying diagnosis and treatment. Within the total treatment plan the student begins to identify the role of nursing and with guidance to plan and provide for the nursing care of the acutely-ill patient. She gains experience in those departments involved in the care of the acutely-ill person and visits some of the agencies for rehabilitation in the community.

(a) 4 hours class, Second year, second term.

(b) 10 hours class, 25 hours guided practice per week (13 weeks);
40 hours practice per week (3 weeks); second summer.

(c) 3 hours class, Third year, first term.

Professor Allen, Miss Devaney and Miss Rowles

NURSING IIIa and b—MATERNAL AND CHILD HEALTH NURSING. The student cares for patients during pregnancy and the puerperium, in infancy and childhood. Emphasis is placed upon the family unit in planning for and promoting care. Experience is planned in the hospital wards and outpatient departments, and in the home.

(a) 1 hour class, 2 hours guided practice; Third year, second term.

(b) 10 hours class, 30 hours guided practice per week (13 weeks);
40 hours practice per week (3 weeks); third summer.

Professor Logan and Miss J. Macdonald

NURSING IVa and b—MEDICAL-SURGICAL NURSING. This course is designed to guide the student as she becomes involved in more complex nursing situations resulting from responsibility for the care of a greater number of patients. The student meets with nursing problems such as are found in the care of the patient at night, the long-term patient and patients with special medical-surgical conditions.

(a) 6 hours class, 18 hours guided practice; Fourth year, two terms.

(b) 6 hours class, 28 hours guided practice per week (4 weeks); fourth summer.

Professor Allen, Miss Devaney and Miss Rowles

GRADUATE NURSES

NURSING V—PSYCHIATRIC NURSING. A study of present psychiatric thought and practice through lectures, inter-disciplinary conferences and discussions. The development of interpersonal and group skills as therapeutic measures is emphasized during the care of patients with varying degrees and kinds of behavior disorder. Experience is planned in the community, the general hospital and the mental hospital.

12 hours class, 20 hours guided practice per week (9 weeks);

40 hours practice per week (3 weeks); fourth summer.

Professor Gemeroy and Miss H. McCallum

NURSING VI—NURSING IN THE COMMUNITY. This course is designed to enable the student to develop increased understanding of relationships between social characteristics and patterns of health and disease and of the organization of services to meet the health needs of the individual, the family and the community. Students have supervised practice in voluntary and official health agencies.

5 hours class, 20 hours guided practice; Fifth year, first term.

Professor Maxwell

NURSING VII—WARD MANAGEMENT AND TEACHING. Study of the various aspects of ward management and clinical instruction with an opportunity to assume some responsibility for the management of a hospital ward.

3 hours class, 20 hours guided practice; Fifth year, second term.

Professor Logan

NURSING VIII—NURSING IN TODAY'S SOCIETY. In this course students study the profession of nursing in society today, and become familiar with current problems in nursing service and in nursing education. The course is conducted as a seminar with students participating in conferences, discussions and group projects.

2 hours, Fifth year, second term.

Professor Chitlick

ANATOMY 2—SYSTEMATIC ANATOMY (given in the Faculty of Medicine).

Lectures and demonstrations designed to provide a knowledge of the anatomical structure of the vital organs by systems.

2 hours class, 2 hours laboratory, two terms.

Dr. J. Sanghi

BACTERIOLOGY 31—ELEMENTARY BACTERIOLOGY AND IMMUNOLOGY (given in the Faculty of Arts and Science).

This course deals with the fundamentals of immunology and of bacterial cytology, physiology and classification. The application of bacteriology in industry, agriculture, medicine and public health are discussed. The laboratory work provides practical experience in the cultivation and

DESCRIPTION OF COURSES

isolation of bacteria and demonstrates their diverse activities.

2 hours class, 5 hours laboratory, two terms.

Professor G. Robertson and Dr. B. H. Matheson

NUTRITION II (given in the Department of Health and Social Medicine).

A study of the nutritional requirements of the body in health and how they are met through proper food selection and preparation; the influence of social, economic and emotional factors in determining eating habits; the application of the principles of nutrition in meeting the needs of various family members; the nurse's role in nutrition education.

2 hours, one term.

Professor Bain

NUTRITION III (integrated with nursing courses)

A study of nutritional requirements during the medical and surgical phases of illness and rehabilitation. Modifications of the normal diet for specific disease conditions. Instructing the patient and adapting the therapeutic diet to the patient's needs.

Lectures, laboratory and guided clinical experience.

For other courses see Calendar for Faculty of Arts and Science.



1891

University of



Library

1891

University of

Library



McGill University



Montreal

**School of
Social Work**

1960-1961

PUBLICATIONS

The following official publications are issued by the University and may be obtained from the Registrar's Office.

Announcements of Faculties and Schools as follows:

General Announcement

School Certificate Examinations

Scholarships, Bursaries, and Loan Funds

Faculty of Arts and Science (Degrees in Liberal Arts and in Pure Science. There is a separate Announcement for the School of Commerce.)

Faculty of Medicine

Faculty of Medicine Postgraduate Courses

Faculty of Dentistry

Faculty of Engineering (Degrees in Engineering and in Architecture.)

Faculty of Law

Faculty of Music

Faculty of Divinity

Faculty of Graduate Studies and Research

School of Commerce

Institute of Education

Library School

School for Graduate Nurses

School of Physical and Occupational Therapy

School of Social Work

Macdonald College (Faculty of Agriculture, and School of Household Science.)

French Summer School

Extension Courses

The Directory of Staff (University administrative officers, standing committees, and officers of instruction. Limited distribution.)

The Calendar (Available for distribution only to libraries and officials of certain institutions.)

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School of Social Work

CALENDAR FOR 1960 - 1961

1960

September 12th, Monday. Registration of Second year students (9:00-12:00) and all part-time students (1:00-4:00).

September 13th, Tuesday. Registration of First year students.

September 14th, Wednesday. General Assembly and Reception for all students.

September 15th, Thursday. Instruction begins.

October 6th, Thursday. Fall Convocation.

December 21st, Wednesday. First term ends.

1961

January 4th, Wednesday, to January 6th, Friday. Examinations.

January 9th, Monday. Second term begins.

February 17th, Friday, and February 18th, Saturday. Mid-term weekend holiday (to be confirmed).

March 31st, Friday, to April 3rd, Monday. Easter Vacation.

April 14th, Friday. Last day of lectures.

April 19th, Wednesday, to April 21st, Friday. Examinations.

April 21st, Friday. Last day for filing M.S.W. theses for Spring Convocation.

April 24th, Monday. Full-time field work (1st year) and full-time research (2nd year) begin.

May 31st, Wednesday. Convocation.

June 2nd, Friday. Second term ends.

August 24th, Thursday. Last day for filing M.S.W. theses for Fall Convocation.

Social Work

The School of Social Work is under the administrative jurisdiction
of the Faculty of Arts and Science.

ADMINISTRATIVE OFFICERS

F. CYRIL JAMES, Chevalier de la Légion d'Honneur, M.A., Ph.D., D.Sc.,
D. de l'U., D.C.L., LL.D., F.R.S.C. *Principal*

DAVID L. THOMSON, B.Sc., M.A., Ph.D., LL.D., F.C.I.C., F.R.S.C. *Vice-Principal*

H. N. FIELDHOUSE, M.A., F.R.S.C. *Dean of McGill College (Faculty of Arts and Science)*

JOHN J. O. MOORE, M.A., Ed.D. *Director of the School of Social Work*

JOHN H. HOLTON, B.Com. *Secretary of the Board of Governors*

COLIN M. McDOUGALL, D.S.O., B.A. *Registrar*

G. A. GRIMSON, B.Com. *Comptroller*

SCHOOL OF SOCIAL WORK OFFICE

3600 University Street

Montreal 2, P.Q.

Telephone—VI. 4-6311

SOCIAL WORK

STAFF OF THE SCHOOL OF SOCIAL WORK

- J. O. W. BRABANDER, M.D., C.M. *Lecturer in Medicine*
- SHIRLEY BRAVERMAN, B.A., M.S.W., McGill University School of Social Work *Supervisor of Field Work Unit*
- JEANNINE FILLION, B.A., Diploma in Social Work, University of Montreal, M.S.W., McGill University School of Social Work *Supervisor of Field Work Unit*
- DOROTHY FREEMAN, B.A., Diploma, McGill School for Social Workers *Associate Professor of Social Work, Psychiatric Social Work*
- CUTHBERT G. GIFFORD, D.F.C., B.A., M.S.W., University of Pittsburgh, School of Social Work *Associate Professor of Social Work, Group Work*
- MARGARET GRIFFITHS, B.A., Diploma, School of Social Work, University of Toronto, M.A., School of Social Service Administration, University of Chicago *Associate Professor of Social Work, Child Welfare*
- MYER KATZ, B.A., M.S.W., McGill University School of Social Work, Ph.D., Columbia University *Associate Professor of Social Work, Case Work, Research and Special Assignments*
- H. DAVID KIRK, M.A., Ph.D., Cornell University. (On leave of absence, 1960-61) *Associate Professor of Social Work, Research and Human Behaviour*
- HEINZ E. LEHMANN, M.D.(Berlin) *Associate Professor of Psychiatry*
- J. B. LIGHTMAN, B.A., LL.B., M.S.S., University of State of New York (On leave of absence, 1960-61) *Associate Professor of Social Work, Public Welfare*
- ALASTAIR W. MACLEOD, B.Sc., M.B., Ch.B., D.P.H., M.R.C.P. *Assistant Professor of Psychiatry*
- JOHN J. O. MOORE, B.A., M.A.(Soc. Wk.), University of Denver, Ed.D., Columbia University *Professor of Social Work, Community Organization. Director of the School*
- ANNA MAE PATTEE, B.A., Stanford University, M.S.S.W., University of Denver *Supervisor of Field Work Unit*
- FAIGI PODBERE, B.A., B.L.S. *Librarian*

STAFF

- MIQUEL PRADOS Y SUCH, M.D.(Madrid) *Adviser for Psychiatric Sequence*
- VERITY M. ROSS, M.Sc., Ph.D., McGill University
Assistant Professor of Social Work, Human Behaviour, Research and Field Instruction
- ARTHUR ROTMAN, M.S.(Soc.Admin.), School of Applied Social Sciences, Western Reserve University *Special Lecturer in Group Work Skills*
- DOROTHY SIROTA, Diploma, School of Social Work, University of Toronto
Supervisor of Field Work, Group Work
- SHIRLEY STEELE, B.A., M.S.W., McGill University School of Social Work
Supervisor of Field Work Unit
- MARY STEVENSON, B.A., Diploma, School of Social Work, University of Toronto, M.S.W., McGill University School of Social Work
Assistant Professor of Social Work, Family Welfare
- HELEN H. TUCK, B.A., M.S.W., McGill University School of Social Work
Associate Professor of Social Work, Medical Social Work
- ELIZABETH URTNOWSKI, B.A., M.S.W., New York School of Social Work, Columbia University
Supervisor of Field Work Unit
- DAVID WEISS, B.S.S., Diploma, New York School of Social Work
Special Lecturer in Administration of Social Agencies
- D. FRASER WOODHOUSE, B.Sc.(P.Ed.), M.S.W., McGill University School of Social Work
Special Lecturer in Group Work Skills
- EVA R. YOUNGE, M.A.
Associate Professor of Social Work and Director of Research

SESSIONAL SUPERVISORS IN FIELD WORK (Active 1959-1960)

- MISS JACQUELINE BRETON, M.S.W.
- MR. STANLEY A. CLYKE, B.S.W.
- MR. STEPHEN CUMAS, M.S.W.
- MISS RHODA ENGLANDER, M.S.W.
- MISS BETTY FOLLIOTT, M.S.W.
- MR. JOSEPH FRIEDMAN, B.S.W.
- MR. CALVIN GOLDBERG, M.S.W.
- MISS HENRIETTA HARVIE
- MRS. M. JEAN HENSHAW, B.A., Dipl.Soc.Wk.
- MR. ERNEST HIRSCHBACK, LL.D.

SOCIAL WORK

MRS. DOROTHY HORN, M.S.W.
MISS RHODA KOPSTEIN, B.S.W.
MRS. ETHEL LEIGH, B.A., Dipl.Soc.Wk.
MISS SHEILA LUBIN, M.S.W.
MISS KATHLEEN MACDONALD, B.S.W.
MISS MARY MACLEAN, M.S.W.
MISS PAULINE MAYRAND, Dipl.Soc.Wk.
MISS PATRICIA MORRISON, M.S.W.
MR. ARTHUR ROTMAN, M.S. (Soc.Admin.)
MR. WILLIAM SHALINSKY, M.S.W.
MR. E. WEINER, M.S.W.
MR. D. FRASER WOODHOUSE, M.S.W.

CENTRES FOR FIELD INSTRUCTION

MONTREAL

ALLAN MEMORIAL INSTITUTE OF PSYCHIATRY OF THE ROYAL VICTORIA
HOSPITAL: Director, Dr. D. Ewen Cameron

BARON DE HIRSCH INSTITUTE, Family Welfare Department: Executive
Director, David Weiss

B'NAI B'RITH YOUTH ORGANIZATION: Director, Miss Rhoda Englander

BOYS' CLUBS OF CANADA: Executive Director, Vernon F. McAdam

BOYS' FARM AND TRAINING SCHOOL: Executive Director, W. F. Shepherd

CHILDREN'S SERVICE CENTRE: Executive Director, Mrs. Muriel B.
McCrea

DEPARTMENT OF VETERANS' AFFAIRS, Social Service Division: District
Supervisor, Mrs. Gladys Fulford
Ste. Anne's Hospital, Medical Social Service Department: Director,
Miss Mary M. MacLean

FAMILY WELFARE ASSOCIATION: General Secretary, Miss Elinor G.
Barnstead

FEDERATION OF JEWISH COMMUNITY SERVICES: Executive Director,
Alvin Bronstein

CENTRES FOR FIELD INSTRUCTION

- GIRLS' COTTAGE SCHOOL: Executive Director, Miss Doreen M. Aylward
- JEWISH CHILD WELFARE BUREAU: Executive Director, David Weiss
- JEWISH GENERAL HOSPITAL, Social Service Department: Director, Mrs. Dorothy Horn
- JEWISH IMMIGRANT AID SOCIETY: Director of Social Services, Joseph Kage
- JOHN HOWARD SOCIETY: Executive Director, Mrs. Kathleen Campbell
- MCGILL UNIVERSITY, SCHOOL OF ARCHITECTURE: Chairman, Committee on Physical Planning, Professor H. Spence-Sales
- MENTAL HYGIENE INSTITUTE: Director, Dr. Baruch Silverman
- MONTREAL BOYS' ASSOCIATION: Executive Director, C. A. Wylie
- MONTREAL CHILDREN'S HOSPITAL, Social Service Department: Director Mrs. Christina G. James
- MONTREAL COUNCIL OF SOCIAL AGENCIES: Executive Director, Charles H. Young
- MONTREAL GENERAL HOSPITAL, Social Service Department: Director, Miss Jessie M. Lawrence
- MONTREAL NEUROLOGICAL INSTITUTE, Social Service Department: Director, Miss Cynthia Griffin
- NEGRO COMMUNITY CENTRE: Executive Director, S. A. Clyke
- NEIGHBOURHOOD HOUSE: Executive Director, E. Weiner
- N.D.G. COMMUNITY COUNCIL: President, Gordon MacDonald
- NOTRE DAME HOSPITAL, Social Service Department: Director, Miss Berthe Michand
- OCCUPATIONAL THERAPY AND REHABILITATION CENTRE: Executive Director, Miss Constance Lethbridge
- PROTESTANT SCHOOL BOARD OF GREATER MONTREAL, School Social Work Department: Chief School Social Worker, B. H. Brown
- ROYAL VICTORIA HOSPITAL, Social Service Department
- ST. ANDREW'S YOUTH CENTRE: Executive Director, Mrs. Sigrid Day

SOCIAL WORK

ST. LAURENT NEIGHBOURHOOD ASSOCIATION, INC.: Executive Secretary,
Miss A. I. Vail

TRAVELLERS' AID SOCIETY: Executive Director, Mrs. M. Jean Henshaw

UNIVERSITY SETTLEMENT: Executive Director, Howard R. McCartney

VERDUN PROTESTANT HOSPITAL, Social Service Department: Director,
Miss Lois A. E. Naylor

YOUNG MEN'S AND YOUNG WOMEN'S HEBREW ASSOCIATION: Executive
Director, Harvey Golden

YOUNG WOMEN'S CHRISTIAN ASSOCIATION: Director, Miss Delight
M. Lynn

OTTAWA

CHILDREN'S AID SOCIETY: Executive Director, Dan B. Fenny

School of Social Work

GENERAL INFORMATION

The McGill University School of Social Work offers a full two-year course of graduate professional education for social work. McGill University is organized by Faculties, with the School of Social Work administered under the Faculty of Arts and Science.

In 1918, McGill University founded a School for Social Workers which was discontinued in 1932. In 1933, with the approval and cooperation of the University, an independent school, offering a two-year course to university graduates and known as the Montreal School of Social Work, was established. In October 1945, the University resumed the function of social work education and the Montreal School of Social Work, by agreement with its Board of Trustees, became the McGill University School of Social Work. The final step in integrating the School into McGill University was taken in 1950, since which time the University has assumed complete responsibility for it. The School is a fully accredited member of the Council on Social Work Education, this organization having supplanted the American Association of Schools of Social Work, of which the School became a member in 1939. Through its membership in this and other national and international organizations, the School is in close touch with significant developments in social work education on the North American continent, and throughout the world.

PURPOSE

The purpose of the School is to provide qualified men and women with the preparation necessary for successful practice in all branches of professional social work. This education is offered on a graduate level, in a curriculum of courses, supervised practice, and research, planned in accordance with the general policies and standards of the Council on Social Work Education. This is a general basic two-year course of training.

THE PROFESSION OF SOCIAL WORK

During the past few decades the services of trained social workers have been increasingly sought by both public and private social welfare agencies. The supply of such workers has never kept pace with the demand and the present shortage is gravely acute. Urgent requests for graduates to fill responsible and well-paid positions are received almost daily. It is obvious that the development of social security programmes and welfare schemes of many kinds, both at home and on the international level, will afford opportunities for satisfying and useful careers to men and women who equip themselves in a school of social work to render services which fall within the following general groupings:

Social Case Work, involving direct service to individuals and families with four main subdivisions: Family Social Work, Child Welfare, Medical Social Work, and Psychiatric Social Work.

Social Group Work, designed to provide individuals with socialized experience through group activities carried on in recreation centres, social settlements, camps, community centres, hospitals, and institutions.

Community Organization, concerned with the planning, organization, and development of the community to meet changing community situations and needs.

Public Welfare, concerned with social services under public auspices, the particular relationship they provide with the clientele, their administration, and their planning.

Social Administration, dealing with the administration and planning phases of social work, including supervision of other workers, teaching, and consultant services.

Research in Social Work, which, in addition to the type of research common to all social sciences, is specifically addressed to programmes, techniques, cost, efficiency, and social significance of the work of social agencies under public and private auspices.

Graduates of the School are to be found in responsible positions in the numerous private social agencies in the cities and rural areas of Canada, and in foreign countries, as well as in the public welfare services, federal, provincial, and municipal. Increased recognition of the value of professionally trained personnel and improved salaries for all classes of social work positions in recent years indicate that well qualified graduates can look forward to fairly rapid advancement and reasonable remuneration.

RESOURCES AND EQUIPMENT

The School is an integral part of McGill University and its students are able to participate fully in the varied life of a great university. Its affiliation with the Faculty of Arts and Science assures close liaison with the Faculty's resources, particularly in the social and biological sciences. In several related fields of professional study—particularly law, medicine, and psychiatry—a rich university tradition of scholarship and achievement is available to it. It has its own building providing classroom accommodation, students' common room, and a compact up-to-date social work library to which new books, documents, and pamphlets are added continually. Students may also use the Redpath Library, the Medical Library, and special libraries in the School of Commerce, the Faculty of Law, and the Mental Hygiene Institute.

Montreal, the largest and most cosmopolitan city of Canada, affords varied community resources in both the public and private social services. A bilingual community, and the main port of entry for immigrants, it affords unique opportunities for study of social problems. The well known teaching hospitals of the city offer unexcelled opportunities for supervised social work training in medical and psychiatric settings. Four Financial Federations and two Councils of Social Agencies afford a fertile field for the study of community organization. Private family, child welfare, and group work agencies are well organized and offer diversified field experience. Local Administrative offices of Federal and Provincial Governments, such as the National Employment Service, Unemployment Insurance Commission, Workmen's Compensation Board, Old Age Pensions Board, Mothers' Allowance Commission, etc., are available for study.

DEGREES

The degree of Master of Social Work (M.S.W.) is awarded to students who complete the two-year graduate course in accordance with the regulations of the Faculty of Arts and Science.

ADMISSION REQUIREMENTS

1. DEGREE STUDENTS

Full-time (General)

Part-time (Limited Degree)

Work for the degree may be undertaken on either a full-time or part-time basis, but all requirements for the M.S.W. degree must be fulfilled within a six-year period, and no student may qualify for the degree without a session of resident study, in which he fulfills approximately two thirds of a full-time programme.

SOCIAL WORK

Applicants must meet the following requirements:

(a) Graduation with a bachelor's degree from a university or college of recognized standing. Applicants should have completed their undergraduate course with superior standing. This should provide a broad liberal education and should include a substantial core in the social sciences, particularly sociology, psychology, economics, and political science. The social science core would usually involve at least one introductory course in each of the above areas with more advanced courses in one of them.

A course in elementary statistics is required. Students admitted without statistics shall take such a course prior to entering their second year.

Students holding a bachelor's degree may be advised on admission to undertake some supplementary basic preparation, either prior to admission or between sessions.

(b) Good health as certified by a physician.

(c) Personal qualifications which in the opinion of the School appear to warrant expectation of success in social work.

(d) Age between 21 and 35 years except in special circumstances.

2. SPECIAL STUDENTS

Full-time (General)

Part-time (Partial)

A limited number of mature persons who are not university graduates, but whose general background and experience in social work suggest ability to profit by work in the School, may be accepted as special students at the discretion of the Committee on Standings. Such students may be required to register in certain undergraduate courses of the Faculty of Arts and Science. A statement of standing for courses taken under examination may be obtained on request, but credit is not given towards a degree.

3. QUALIFYING STUDENTS

Full-time (General)

Part-time (Limited)

Those students who have (a) qualifications for becoming degree students, but who have not yet been accepted for degree status; or (b) those students who are not qualified for degree status, but who are in process of becoming qualified through meeting specified requirements.

ADVANCED STANDING

Courses: Students desiring to secure credit towards a degree for courses taken in other universities or schools of social work must submit official

records with any applications for such credit. Each case will be dealt with on its merits.

Field Work: In most of these cases students may be given credit for field work undertaken prior to registration in the School. The amount of such credit will be determined after the School has had an opportunity of observing the student's performance in the field.

Decisions involving questions of advanced standing will be made by the Committee on Standings.

APPLICATION AND REGISTRATION

Prospective students wishing information about the profession, or about prerequisites, should communicate with the School, where a preliminary interview will be arranged.

Application for admission must be made in advance of registration. Since enrolment is limited and the admissions policy is selective, intending students are advised to apply by *April 1st* in the year during which they desire to enter the School. Early applications will receive preferential consideration. A personal interview is arranged, at the School whenever possible; otherwise an applicant may be requested to interview a person designated by the School. Application forms may be obtained from the School of Social Work, McGill University. Applicants who are not McGill graduates must submit a certified copy of their academic record beyond high school. Applications must be accompanied by a physician's certification that applicant has been examined and is in good health.

Registration: Students in the School of Social Work will register at the School, 3600 University Street, as indicated in the School Announcement (page 3304). Registration begins Monday, September 12th.

All students are admitted on probation. A student may be asked to withdraw if careful review of his progress suggests this to be advisable.

Students taking a full programme of courses in any term usually cannot expect to do the work of the School satisfactorily unless they give their full time to it. Any plan for part-time employment must be fully discussed with the student's adviser.

PLAN OF STUDY—

REQUIREMENTS FOR THE MASTER OF SOCIAL WORK DEGREE (M.S.W.)

FIRST YEAR PROGRAMME

Basic courses in the following subjects are required of all candidates:

- SOCIAL CASE WORK
- SOCIAL GROUP WORK
- HUMAN GROWTH AND BEHAVIOUR

SOCIAL WORK

COMMUNITY ORGANIZATION
THE SOCIAL SERVICES
SOCIAL RESEARCH
FIELD WORK

The programme of First year students is prescribed.

Requirements for the First year of work are:

1. Completion of the equivalent of five "full courses" in the above list.
2. Supervised field work (a) two days per week, September-April, (b) daily for six weeks following close of classes.

SECOND YEAR PROGRAMME

Admission to Second year standing will be restricted to those students who have obtained at least second class standing in the First year course or its equivalent and whose performance is satisfactory to the Committee on Standings. The pass mark in all courses will be 50 per cent in the First year and 65 per cent in the Second. Permission to write supplemental examinations or to repeat courses will be granted only when the School so recommends.

Students may, staff concurring, write a thesis which must be satisfactory to internal and external examiners. Students who elect not to write a thesis are required to complete other research requirements and additional courses. (See Description of Courses.)

In the Second year the student may elect to broaden and deepen his general preparation for the practice of social work or to concentrate his studies, to some extent, in a particular field of his choice.

At present the School prepares students for practice in the following fields:

FAMILY CASE WORK
CHILD WELFARE
MEDICAL SOCIAL WORK
PSYCHIATRIC SOCIAL WORK
COMMUNITY ORGANIZATION
PUBLIC WELFARE
SOCIAL GROUP WORK
SOCIAL RESEARCH
SOCIAL ADMINISTRATION

STUDENTS FROM OTHER COUNTRIES

The School is especially equipped to provide training for students planning to work in countries other than Canada and the United States.

FEES

Special courses are offered for such students (see Description of Courses) and the above plan of study is appropriately modified to meet their needs.

HOUSING AND TOWN PLANNING

The plan of study may be modified in the Second year, by special arrangement, to permit students to adapt their social work training to the field of housing and town planning.

THE DEGREE REQUIREMENTS ARE:

1. Completion of the first year programme.
2. The equivalent of four additional "full courses".
3. Supervised practice.
4. A thesis or an additional "full course" to 2 above.

FEES

The University reserves the right to make changes without notice in its published schedule of tuition, board and residence, and other fees if, in the opinion of the Board of Governors, circumstances so require.

(a) FULL-TIME STUDENTS

Fees for the Session, each year:

University Fee (including Students' Society Fee of \$15.00) .. \$500.00

(b) PART-TIME STUDENTS

Fee for one full course (two terms)	\$115.00
Fee for one half course (one term)	57.50
Student activities fee for part-time students taking less than three courses	5.00

Students working for the degree on a part-time basis will not pay more than a total of \$1,175.00 for the full two-year course, except when the thesis is not completed along with course and field work requirements. Those students who have taken courses under a different fee scale will have their maximum adjusted accordingly.

Fees are due and payable at the Accounting Office immediately after registration.

When fees are paid by instalments, an instalment fee of \$5.00 is charged. Special fees and penalties, and the regulations regarding payment and remission of fees, are listed in the General Information pamphlet included with this Announcement.

SOCIAL WORK

(c) OTHER FEES

A candidate for the Master's degree, who has completed his courses and his residence but has not completed his thesis, must pay a registration fee of \$10.00 at the beginning of the session in which he intends to submit the thesis. Any student receiving thesis supervision from a member of the staff is considered to be in residence and must register for the session and pay a fee of \$50.00.

Fees herein stated do not cover expenses such as carfare to and from field work, and small miscellaneous items such as materials for group work skills.

BURSARIES AND LOANS

A number of bursaries are available for the Session 1960 61.

Substantial financial assistance may be given under the Federal-Provincial Health Grants to students meeting certain specified conditions.

Similar assistance is also available through some Provincial Governments in Canada, and State Governments in the United States. Prospective students, other than those from the Province of Quebec, interested in obtaining such financial assistance, should make inquiry through their provincial or state government. Overseas students should inquire of their governments of the availability of United Nations and Colombo Plan study grants.

Fellowships, scholarships, and work-study plans are available through various private organizations such as the National Jewish Welfare Board and affiliated agencies. Inquiries regarding such funds should be made directly to the organization.

A limited number of bursaries, supported by private organizations, are available through the School.

While awards are made only to students of attainment and promise, the financial needs of applicants will receive consideration. Inquiries should be addressed to the Director.

Loans are available from the Social Work Alumni and Southam Loan Funds, from the Pi Beta Phi Loan Fund established for the use of students in financing their training or in meeting temporary or emergency needs, and from a few private welfare organizations on arrangements made by the School.

Inquiries regarding University assistance, other than here mentioned, should be made to the Registrar of McGill University.

DESCRIPTION OF COURSES

- 1a. SOCIAL CASE WORK I. First year (Half course). Principles and methods used in helping individuals and families meet personal and social needs through social agency resources. Significance of behaviour, evaluation of social data, process in interviewing, recording, and the professional relationship are considered. Illustrative case material and the field experience of class members will be used.

First term

Professor Stevenson

- 1b. SOCIAL CASE WORK I. First year (Half course). A continuation of Course 1a above.

Second term

Professor Stevenson

3. SOCIAL CASE WORK WITH CHILDREN. Second year (Half course). The case work process in care and protection of children. Special needs of children living with natural parents, in foster homes, and in group settings.

Not given in 1960-61 session.

- 4a. ADVANCED SOCIAL CASE WORK. Second year (Half course). A seminar, aiming to deepen knowledge of psychiatric and other theoretical approaches to the practice of case work in varied settings. Emphasis is given to patterns of interaction pertinent to the family diagnosis and treatment process, and to teamwork with other professions.

Prerequisites: Courses 1a, 1b, 5a and 5b.

First term

Professors Freeman and Tuck

- 4b. ADVANCED SOCIAL CASE WORK. Second year (Half course). A continuation of Course 4a above and including the use of the group in case work practice.

Second term

Professor Freeman

- 5a. HUMAN GROWTH AND BEHAVIOUR. First year (Full course). The course will approach human growth and behaviour chronologically from conception to old age. Development at each stage involves consideration of the physical, socio-cultural and psychological determinants of the growth process as interacting systems. These systems are seen as they create optimal as well as deviant adaptations of behaviour.

First term.

Professors Younge, Ross and Tuck

- 5b. HUMAN GROWTH AND BEHAVIOUR. First year (Half course). A continuation of Course 5a above.

Second term

Professors Younge, Ross and Tuck

SOCIAL WORK

6. **PSYCHIATRIC INFORMATION II.** Second year (Half course). A discussion of clinical cases focused on the dynamics of behaviour in the neuroses and in the organic and functional psychoses. Etiological factors, examination methods, and treatment procedures. The contribution of the various schools of psychiatric thought to social work. Class work supplemented by clinical observations.

First term

Professors Lehmann and MacLeod

- 8a. **SOCIAL GROUP WORK II.** First year (Half course). A study of the theories and principles of group work practice. The nature of the social process in organized groups and its value to the individual; group experience at varying age levels; the use of play and other media in relation to the needs and adjustment of the individual; the role of the leader in group work. A discussion of group situations based on group records. An analysis of agencies and their programmes. The interrelation of group work and other fields of social work.

First term

Professor Gifford

- 8b. **SOCIAL GROUP WORK II.** First year (Half course). A continuation of Course 8a above.

Second term

Professor Gifford

9. **SOCIAL GROUP WORK IIa.** First year (Half course). A course required in connection with Social Group Work II planned to develop skill and understanding in the use of programme activities designed to meet the needs of individuals and ability to direct such activities to socially desirable ends. Consideration will be given to the fundamentals of music, traditional games, folk dancing, arts and crafts, and their adaptation to groups of various ages and types.

First and second terms

Mr. Woodhouse

- 10a. **SOCIAL GROUP WORK III.** Second year (Half course). An advanced course dealing with organization and leadership of various types of groups and the relation of these groups to the agency and community. Analysis of group records; agency functions in relation to leadership for staff, volunteers, and community; administrative and advisory aspects of group work.

Prerequisites: Courses 8a, 8b, 9.

First term

Professor Gifford

- 10b. **SOCIAL GROUP WORK III.** Second year (Half course). A continuation of Course 10a above.

Second term

Professor Gifford

DESCRIPTION OF COURSES

11. **SOCIAL GROUP WORK IIIa.** Second year (Half course). A course required for students in group work field work; optional for others. A consideration of the educational skills of the social worker. The focus of the course is on the use of discussion and conference method, role-playing, programme planning, and other techniques of group education.

First or second term. *Mr. Rotman*

12. **COMMUNITY ORGANIZATION I.** First year (Half course). An introduction to the theory and practice of community organization method. The concepts of community; the dynamics of community life; the nature and role of community organization practice; the role of the practitioner; values, verified knowledge, principles and techniques and their application to a variety of community problems.

Second term. *Professor Moore*

13. **COMMUNITY ORGANIZATION II.** Second year (Half course). An advanced course in the theory and practice of community organization method. Community organization practice in the social welfare agency, particularly individual and group service agencies, financial federations and welfare councils. The determinants of method; programme development (including research, policy-making and planning; coordination and integration; education; promotion; financing; and assessing the need for and inaugurating new agencies.

Second term. *Professor Moore*

14. **ADMINISTRATION OF SOCIAL AGENCIES.** Second year (Half course). The administrative process within the social agency; functions and inter-relationships of board of directors, executive, and staff. Committees. Financial administration and budgeting; office management, etc.

First term. *Mr. Weiss*

15. **GOVERNMENT AND SOCIAL WORK.** First year (Half course). The Canadian nation; land, resources, population. Economic development. Political institutions and administrative structure. Distribution of welfare functions among national, provincial, and municipal authorities. Constitutional problems and remedies proposed. Public finance and taxation.

Not given in 1960-61 session.

- 16a. **PUBLIC WELFARE I—THE SOCIAL SERVICES.** First year (Half course). A survey course, designed primarily for First year students. Historical background of modern social services both public and private. Analysis of major social problems today, and of the services developed to meet them. Examination of policies in such areas as public assistance, social

SOCIAL WORK

insurance, child welfare, correction, medical care, and other health services. Interrelationships between public and private social services. Administration framework in relationship to plans for social security.

First term

Professor Lightman

- 16b. PUBLIC WELFARE I—THE SOCIAL SERVICES. First year (Half course)
A continuation of Course 16a above.

Second term

Professor Lightman

17. PUBLIC WELFARE II(a)—CHILD WELFARE. Second year (Half course).
Historical development of child welfare services in England, United States, and Canada. Interrelationships between public and private services. Examination of existing child welfare legislation with particular reference to the care of neglected and dependent children. Problems of organization and administration.

First term

Professor Griffiths

18. PUBLIC WELFARE II(b)—SOCIAL INSURANCE. Second year (Half course).
Historical background and development. Examination of social insurance systems today. Problems of administration. Relationship to public assistance and social agencies. Problems of integration with public assistance programme.

Not given in 1960-61 session.

19. PUBLIC WELFARE II(c)—PUBLIC ASSISTANCE. Second year (Half course).
Examination of essentials in a modern public assistance programme. Categorical aid. Relationship to health services and to private social agencies. Problems of organization and administration. Problems of integration with social insurance.

Second term

20. PUBLIC WELFARE II(d)—PUBLIC WELFARE ORGANIZATION AND ADMINISTRATION. Second year (Half course).
Examination of principles of public administration in a public welfare setting. Structure of major Canadian public welfare organizations. Problems of reorganization. Administrative process.

Not given in 1960-61 session.

22. MEDICAL INFORMATION II. First or Second year (Half course).
Further consideration of the rehabilitation problems of adults and children in relation to selected disease entities.

Second term

Dr. Brabander, Professor Tuck, and medical lecturers

DESCRIPTION OF COURSES

- 23a. MEDICAL SOCIAL WORK. Second year (Half course). A course designed for advanced students interested in the practice of social case work in the medical setting.
Not given in 1960-61 session. Professor Tuck
- 23b. MEDICAL SOCIAL WORK. Second year (Half course). A consideration of the organization of hospital social service departments; social implications of various administrative services within the hospital; participation of the medical social worker in medical and nursing education; function of the medical social worker in extramural programmes for health and medical care; growth and development of medical social work.
Second term Professor Tuck
Not given in 1960-61 session.
24. NUTRITION AND COST OF LIVING. Second year (Half course). Elements of nutrition. Essentials of an adequate diet with special reference to the properties of the commoner food materials and their cost. Some consideration of cost of living standards at the health and decency level.
Not given in 1960-61 session.
25. LEGAL ASPECTS OF SOCIAL WORK. Second year (Half course). The essential principles of law and their relation to problems encountered by social workers in the performance of their duties.
Not given in 1960-61 session.
26. PUBLIC RELATIONS. Second year (Half course). A study of the interpretation of social work to the public. Publicity, methods and media. The role of the volunteer. Students participate in preparation of material for newspaper publication, radio, reports, etc.
Not given in 1960-61 session.
27. HISTORY OF SOCIAL WORK. Second year (Half course). Social work seen in perspective through a study of charity, law, the industrial revolution, and subsequent nineteenth century social movements. Persons and processes active in the antecedents, origins, and development of social work are observed in relation to the social history and thought of their respective periods.
Professor Moore
28. SOCIAL RESEARCH METHODS I. First year (Half course). An introduction to the fundamental principles of research in the field of social work and allied social investigation.
Second term Professor Younge

SOCIAL WORK

- 29a. SOCIAL RESEARCH METHODS III. Second year (Half course). Critical analysis of current social work research; emphasis on methodological problems; students' presentations and discussion will be used.

Prerequisite: Course 28.

For students who elect not to write a thesis.

First term

Professors Younge and Kats

- 29b. SOCIAL RESEARCH METHODS IV. Second year (Half course). Completion of a report by Second year students on a topic selected during the first term in one of the current courses; tutorial assistance by staff members with some group discussion.

Prerequisites: Courses 28 and 29a.

For students who elect not to write a thesis.

Second term

Members of the Staff

30. RESEARCH SEMINAR. Second year (Full course). Individual and group conferences dealing with student theses.

For students who elect to write a thesis.

First and second terms

Professor Younge and Thesis Advisers

31. SEMINAR IN SOCIAL WORK. Second year (Half course). A discussion course presenting typical problems encountered in various fields of social work.

To be arranged.

Members of the Staff

32. INTRODUCTION TO SUPERVISION (Half course). A discussion of basic concepts implicit in supervision as an administrative and teaching process. Open to students who are having or who have had experience as supervisors.

Professor Freeman

33. SEMINAR IN SUPERVISION (Half course). An advanced course. Supervised practice may be arranged concurrently.

Prerequisite: Course 32 or substantial supervisory experience.

Professor Freeman

34. INTERNATIONAL WELFARE AND COMPARATIVE SOCIAL LEGISLATION (Half course). A course designed particularly for students from countries other than Canada and the United States, covering the role and scope of international welfare organization and practice, and welfare legislation, in selected geo-social areas, and principles and practices applicable to the development and implementation of welfare legislation.

Professor Lightman

35. INTERNATIONAL SEMINAR IN SOCIAL WORK (Half course). A discussion course designed particularly for students from countries other than Canada and the United States, and based upon intensive study of and

DESCRIPTION OF COURSES

reports on selected countries; with particular emphasis on identifying major social problems, understanding the social forces bearing on these problems, and considering appropriate professional approaches to aid in their solution.

Professor Lightman

36. ADVANCED INTERNATIONAL SEMINAR IN SOCIAL WORK (Half course). An extension of Course 35.

Professor Lightman

FACULTY OF GRADUATE STUDIES AND RESEARCH

Related courses in the Faculty of Graduate Studies and Research may be used, with permission, to meet the special interests of students possessing the necessary prerequisites.

EXTENSION COURSES

1960-61

- B99. ADVANCED COUNSELLING (Full course). A seminar course with emphasis on marriage problems. Theoretical presentations related to students' case material. Emphasis on furthering skill in the marital diagnostic process, and on differential use of treatment methods as well as the role of the psychiatric consultant.

Professor Freeman and Clinicians

Prerequisites: M.S.W. degree and three to five years experience in a setting of recognized standards.

- B100. COMPARATIVE APPROACHES TO PERSONALITY (Half course). This course comprises a systematic examination of a selected number of analytic and non-analytic approaches to personality. Particular attention is devoted to the major concepts and basic assumptions of Freud, Rank, Adler, Horney, Fromm, Sullivan, Rogers and Lewin. A major emphasis of the course is a consideration of the implications of the various personality theories for social work practice.

Professor Katz

Prerequisites: M.S.W. degree or equivalent, and a minimum of one year of professional experience.

Other extension courses will be offered at times convenient to employed persons.

Special announcements will be made from time to time through the Department of University Extension or the School.

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McGill University



Montreal

**School of Physical and
Occupational Therapy**

**Davis House
1960-1961**

PUBLICATIONS

The following official publications are issued by the University and may be obtained from the Registrar's Office.

Announcements of Faculties and Schools as follows:—

General Announcement

School Certificate Examinations

Scholarships, Bursaries, and Loan Funds

Faculty of Arts and Science (Degrees in Liberal Arts and in Pure Science. There is a separate Announcement for the School of Commerce.)

Faculty of Medicine

Faculty of Medicine Postgraduate Courses

Faculty of Dentistry

Faculty of Engineering (Degrees in Engineering and in Architecture)

Faculty of Law

Faculty of Music

Faculty of Divinity

Faculty of Graduate Studies and Research

School of Commerce

Institute of Education

Library School

School for Graduate Nurses

School of Physical and Occupational Therapy

School of Social Work

Macdonald College (Faculty of Agriculture and School of Household Science)

French Summer School

Extension Courses

The Directory of Staff (University administrative officers, standing committees, and officers of instruction. For limited distribution.)

The Calendar (Available for distribution only to libraries and officials of certain institutions.)

School of Physical and Occupational Therapy

*The School of Physical and Occupational Therapy
is under the administrative jurisdiction of the
Faculty of Medicine.*

ADMINISTRATIVE OFFICERS

F. CYRIL JAMES, Chevalier de la Légion d'Honneur, Ph.D., D.Sc., D. de L'U.,
D.C.L., LL.D., F.R.S.C. *Principal*

DAVID L. THOMSON, M.A., Ph.D., LL.D., F.C.I.C., F.R.S.C. *Vice-Principal*

LLOYD G. STEVENSON, M.D., Ph.D. *Dean of the Faculty of Medicine*

GUY H. FISK, B.A., M.D., C.M., D.T.M. & H. (Eng.)
Director and Associate Professor

HELEN M. GAULT, B.Sc. (P. & O.T.), T.M.M.G., T.M.E. (Eng.)
Assistant Professor

JOHN H. HOLTON, B.COM. *Secretary of the Board of Governors*

COLIN M. McDougall, D.S.O., B.A. *Registrar*

A complete list of the teaching staff of the University, including the School of Physical and Occupational Therapy, is printed as a separate Announcement, which may be obtained from the Registrar's Office.

SCHOOL OF PHYSICAL AND OCCUPATIONAL THERAPY OFFICE

DAVIS HOUSE

3654 Drummond Street,

Montreal 2

Telephone — VI 4-6311

PHYSICAL AND OCCUPATIONAL THERAPY

GENERAL INFORMATION

The aim of the course in Physical and Occupational Therapy is to provide a supply of adequately trained graduates who will be qualified to work as physical and occupational therapists in hospitals, institutions, and private homes.

Physical Therapy is the use of heat, light, water, electricity, and mechanical agents, including massage and remedial gymnastics, in the treatment of injury and disease. Occupational Therapy is the specific application of activities in the treatment of injury or disease. The media used include arts, crafts, recreation, prevocational and rehabilitation training. Physical and occupational therapists are trained in the use of these healing agents under the direction of a physician, such treatments being prescribed by the physician and carried out according to prescription. There is a steadily growing demand for qualified physical and occupational therapists in both civilian life and the armed services. In the armed forces physical and occupational therapy sisters are given the same rank and commission as nurses. In civilian life they work in hospitals, industries, clinics, and in private homes, under the direction of doctors.

DEGREE COURSE - B.Sc. (PHYSICAL AND OCCUPATIONAL THERAPY)

The full curriculum consists of five academic years at the University. During these years the student will take an organized course in pure science together with professional training in Physical Therapy and Occupational Therapy. Throughout the course ample provision has been made for practical hospital instruction, in addition to the University training. This hospital training is carried out at the Montreal Children's Hospital, the Montreal General Hospital, the Royal Victoria Hospital, the Verdun Protestant Hospital, the Queen Mary Veterans' Hospital, and the Royal Edward Laurentian Hospital.

The degree student will take Anatomy as one continuation subject and at the beginning of the Fourth year will choose between Physiology or Psychology, as the second continuation subject.

Upon satisfactory completion of the entire course, a Degree will be granted by the University. The Degree offered is Bachelor of Science (Physical and Occupational Therapy), B.Sc.(P.&O.T.)

DIPLOMA COURSE IN PHYSICAL THERAPY

Students will take the same First and Second years as the Degree Course students. The Third year students will take:

ADMISSION

ANATOMY P. 2
ELECTROTHERAPY 2 and 3
CLINICAL THERAPY 2
PHYSICAL THERAPY 2 and 3A
Hospital practice 460 hours
PHYSIOLOGY 22

DIPLOMA COURSE IN OCCUPATIONAL THERAPY

Students will take the same First and Second years as the Degree Course students. The Third year students will take:

ANATOMY P. 2
CLINICAL THERAPY 2
PHYSICAL THERAPY 3A (half course)
OCCUPATIONAL THERAPY 2A, 2B, 3A, 3BI and 3BII, 4BII
Hospital practice 460 hours
PHYSIOLOGY 22

POSTGRADUATE TRAINING

A two-year period of postgraduate study is available in either Physical or Occupational Therapy to meet the teaching requirements of the Associations.

ADMISSION

Women students only are admitted to the course.

ACADEMIC REQUIREMENTS

For admission to the First year

Junior Matriculation in the subjects required for admission to the B.Sc. course in the Faculty of Arts and Science with an average of at least 70%.

For admission to the Second year

Senior Matriculation or one year of college work with satisfactory standing in English Literature, English Composition, Mathematics (Algebra and Trigonometry), Physics, Chemistry, and Biology.

Candidates should address all applications to:

Professor Guy H. Fisk,
Director, McGill School of Physical and
Occupational Therapy,
3654 Drummond St.
Montreal 2.

The intending student should state on the application form for which year she is applying.

PHYSICAL AND OCCUPATIONAL THERAPY

PHYSICAL REQUIREMENTS

Candidates, in order to qualify for admission, must pass satisfactorily a complete physical examination.

REGISTRATION

Registration will take place at Davis House for the—

- 1st year, Thursday, September 15th;
- 2nd year, Tuesday, September 20th;
- 3rd year, Wednesday, September 7th;
- 4th year, Wednesday, September 7th;
- 5th year, Wednesday, September 7th.

FEES

The fees are \$500.00 per annum, including Students' Society fees. Fees are due and payable at the Accounting Office during the hours of 9 a.m. to 4 p.m., on Registration Days. If desired, fees may be remitted by mail on or before the due dates. They may be paid in two instalments, in which case there is a charge of \$5.00. The second instalment is due on or before January 15th. When fees are paid in two instalments, half the total fee is payable with each instalment.

Students registering late pay their fees at the time of registration, failing which they become subject to the provisions of the following paragraph:

Immediately after the prescribed dates for the payment of fees the Chief Accountant will send to the Director of the School a list of the registered students who have not paid their fees. The Director will thereupon suspend them from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Chief Accountant.

Supplemental examination fees are \$10.00 for each paper.

Penalty for late payment of fees.....\$2.00

Late registration fee.....\$5.00

PRIZES

The Lieutenant Governor's Gold Medal is awarded to the student with the highest standing throughout the degree course.

The Canadian Physiotherapy Association presents a Book Prize annually to the student with the highest standing in the Final year of the degree course.

The Quebec Society of Occupational Therapy Book Prize is awarded annually to the student with the highest standing in practical application of Occupational Therapy in the Third year of the Diploma course.

EXAMINATIONS

The Dr. F. G. Finley Book Prize is presented annually to the student with the highest standing in the Third year of the Physical Therapy Diploma course.

SCHOLARSHIPS ANNOUNCEMENT

A complete list of scholarships and bursaries and the regulations governing the various loan funds are given in the Announcement of Scholarships, Bursaries, and Loan Funds which may be obtained from the Registrar's Office.

EXAMINATIONS

The pass mark in any course is 50%.

At the conclusion of each course examinations will be held and the student graded as follows:

1st class	—	80 - 100
2nd class	—	65 - 79
3rd class	—	50 - 64
Failure	—	Below 50

In reporting the grading, the names of those students who obtain First Class standing will be arranged in order of merit. In all other grades the arrangement will be alphabetical.

The quality of the English used by a candidate will be taken into account in all examinations.

All results of the examination will be released by the Director's Office after due consideration by the Faculty. No examination results will be communicated by any other channel.

A student who fails in one subject will be required to pass a supplemental examination during the following September. Written application to write a supplemental examination must be received at the Director's Office by August 1st. A fee of \$10.00 for each supplemental paper is payable to the Accounting Office as soon as the application has been approved. No supplemental examination may be written more than twice.

All conditions must be removed by May in the following session. If a student fails at this time she will not be permitted to proceed further in the course.

A student who fails in more than one full course may, at the discretion of the Committee of the School of Physical and Occupational Therapy with the concurrence of the Promotion Committee of the Faculty of Medicine, be required to withdraw from the School.

PHYSICAL AND OCCUPATIONAL THERAPY

A student who has been permitted to repeat a year is required to make at least Third Class standing. If this standing is not attained the student will not be permitted to continue the course.

No year may be repeated more than once, nor may a student repeat a subsequent year. By special recommendation of the Committee of the School of Physical and Occupational Therapy, with the concurrence of the Promotion Committee of the Faculty of Medicine, a student may be permitted to carry one condition. If the student fails to remove this condition by the end of the session she will revert to the previous year.

A student, who for reasons of illness or family affliction, has been unable to write one or more sessional examinations, may receive permission to write September supplementals in their stead. Application to do so must be made to the Director before August 1st, but no fee will be charged.

The Faculty reserves the right to require the withdrawal of any student at any time if in the opinion of her instructors she is incompetent.

LICENCE TO PRACTISE

Certain provinces of the Dominion of Canada and states of the United States of America require that those intending to practise physiotherapy within their borders comply with special provincial or state licensing requirements. Intending students should therefore consult with the province or state authorities before registering.

In Canada, further details can be obtained from the Canadian Physiotherapy Association, 64 Avenue Road, Toronto 5, Ontario.

In the United States, communicate with the American Physical Therapy Association, 1790 Broadway, New York 19, N.Y.

The School of Physical and Occupational Therapy, McGill University, is registered with the University of the State of New York.

ASSOCIATION MEMBERSHIP

The Canadian Physiotherapy Association and the Canadian Association of Occupational Therapy have special postgraduate interning requirements for Diploma students.

In order to join the Canadian Physiotherapy Association graduates are required to do five months' postgraduate interning.

In order to join the Canadian Association of Occupational Therapy graduates are required to do six months' postgraduate interning.

COURSES OF INSTRUCTION

FIRST YEAR

ENGLISH 100.—LITERATURE (Fac. Arts and Sci.) (Full course).

3 hours of lectures and conferences.

ENGLISH 100C.—ELEMENTARY COMPOSITION (Fac. Arts and Sci.)

1 hour weekly throughout the session.

MATHEMATICS 111—TRIGONOMETRY, ALGEBRA, ANALYTICAL GEOMETRY (Fac. Arts and Sci.) (Full Course).

PLANE TRIGONOMETRY. Radian measure, logarithms, definitions of the trigonometrical functions, relations between the trigonometrical functions, reduction of angles, addition formulae, transformation of sums and products, logarithmic solution of triangles, problems in heights and distances, inverse functions, solution of trigonometric equations, graphs.

ALGEBRA. Variation, progressions, permutations and combinations, mathematical induction, binomial theorem, theory of quadratic equations.

ANALYTICAL GEOMETRY. The analytic geometry of the straight line and circle.

3 hours.

PHYSICS 11.—GENERAL COURSE (Fac. Arts and Sci.) (Full course). A general course covering the elementary portions of mechanics, sound, heat, magnetism, electricity, light, and atomic physics. Simple applications of fundamental principles to well known phenomena are explained with the aid of demonstrations, laboratory work, and numerical examples.

3 hours. Laboratory (11L): 2 hours.

CHEMISTRY 11.—GENERAL CHEMISTRY (Fac. Arts and Sci.) (Full course).

General survey of chemical theory and of inorganic chemistry, including atomic and kinetic theories, equivalent, atomic and molecular weights, gases, liquids, solids, solutions, ionization, oxidation and reduction, velocities of reactions, chemical equilibrium, heats of reaction, electro-motive series, periodic table, preparation and properties of important elements and compounds.

3 hours lectures, and 3 hours laboratory.

BIOLOGY 100.—THE HIGHER PLANTS AND ANIMALS (Full course). An introductory course in Biology, covering the higher plants and animals. The course is given in two sections. Section X considers the plants in the

PHYSICAL AND OCCUPATIONAL THERAPY

first term and the animals in the second term. Section Y considers the animals in the first term and the plants in the second term.

2 hours lectures and 3 hours laboratory.

SECOND YEAR

CHEMISTRY 22.—ORGANIC CHEMISTRY (ELEMENTARY, WITHOUT LABORATORY) (Fac. Arts and Sci.) (Full course). Special characteristics of carbon and its compounds; the principles of functionality, homology, and isomerism; nomenclature, occurrence, preparation, physical and chemical properties, and uses of the more important organic compounds.

2 hours, one tutorial.

ANATOMY P. 1.—THE ANATOMY OF THE AXIAL SKELETON AND OF THE UPPER AND LOWER EXTREMITY (Fac. Medicine). A course designed to familiarize the student with the basic framework of the head, neck, and trunk, and the detailed anatomy of the arm and leg.

3 hours lecture, and 2 hours laboratory. *Professor C. P. Leblond and Staff*

PSYCHOLOGY 21.—Introduction to Psychology (Full course). A biologically oriented outline of the modern approach to psychology.

2 hours and 1 weekly conference.

Professor Hebb and Staff

CLINICAL THERAPEUTICS 1. Elementary consideration of disease processes commonly seen in patients treated by physical and occupational therapists.

1 hour lecture.

Professor Fish

PSYCHIATRY 1. A course in psychiatry, with introductory lectures in normal psychology as a basis for the study of psychiatric disorders treated by physical and occupational therapists.

1 hour lecture.

Dr. F. W. Lundell

PHYSICAL THERAPY 1.

A. A course covering the requirements of students in Physical and Occupational Therapy in body mechanics, kinesology and remedial gymnastics and their application to the more common disabilities.

2 hours lecture, and 3 hours laboratory. *Miss J. Ward, Mrs. P. Pearce*

B. A course of massage and the application to medical and surgical conditions.

4 hours laboratory.

Mrs. P. Pearce

COURSES OF STUDY

C. A theoretical and practical course in the treatment, where applicable, by physical means, of diseases of the respiratory, cardio-vascular, abdominal, and skeletal systems. This course is correlated with the lectures in clinical therapy and occupational therapy.

2 hours lectures, and 3 hours laboratory.

Mrs. Gault

ELECTROTHERAPY 1. A theoretical and practical course in the physical principles and the details of technique of direct and low frequency currents for therapeutic purposes.

1 hour lecture, and 1 hour laboratory.

Miss E. P. Aston

OCCUPATIONAL THERAPY 1.

The history, development and scope of Occupational Therapy. A study of the basic principles of Occupational Therapy applied to mental and physical disability. An introduction to Group Dynamics.

Leatherwork, copper tooling, puppetry, cord knotting and soap carving. Adapted equipment, and activities of daily living.

Recreation—a study of individual, group and remedial games.

3 hours lectures and 4 hours laboratory.

Miss E. N. Dunkin

HOSPITAL PRACTICE—112 hours.

THIRD YEAR

ANATOMY 2.—SYSTEMATIC ANATOMY. P. 2. Lectures and demonstrations designed to provide a knowledge of the anatomical structure of the vital organs by systems.

2 hours lectures, and 2 hours laboratory.

Professor C. P. Leblond and Staff

PHYSIOLOGY 22.—ELEMENTARY PHYSIOLOGY (Fac. Arts and Sci.) (Full course).

For Second and Third years Arts and Science students. An account of general physiological principles, combined with an introduction to basic techniques, intended primarily for students who will specialize in one of the biological sciences.

2 hours lectures, and 3 hours laboratory.

CLINICAL THERAPEUTICS 2. A detailed consideration of the diseases and injuries requiring treatment with physical and occupational therapy. The application of treatment to specific symptoms will be dealt with in detail. Specialists in various branches of medicine and surgery will give lectures.

2 hours lectures.

Professor Fish and Staff

PHYSICAL AND OCCUPATIONAL THERAPY

PHYSICAL THERAPY 2. A practical and theoretical course including massage and remedial exercises, hydrotherapy, progressive resistance and suspension exercises, for medical and surgical conditions, from early treatment to rehabilitation.

116 hours.

Miss E. P. Aston, Miss J. Ward, Mrs. P. Pearce

ELECTROTHERAPY 2. A course in theory and application of ultra-violet radiations and diathermy (high frequency) apparatus.

1 hour lecture, and 2 hours laboratory.

Mrs. Gauld

OCCUPATIONAL THERAPY 2.

A. A study of the principles of occupational therapy used in the treatment of neuromuscular disorders with emphasis on the adaptation of equipment.

1 hour lecture.

B. A course in occupational therapeutic techniques and their application to specific disabilities.

Woodwork, metalwork, weaving, needlework, glove making.

Adapted equipment.

130 hours.

Miss E. N. Dunkin

HOSPITAL PRACTICE—424 hours.

FOURTH YEAR (DEGREE COURSE)

BIOCHEMISTRY 31.—GENERAL PHYSIOLOGICAL CHEMISTRY (Fac. Arts and Sci.) (Full course). A general survey of the chemistry of carbohydrates, fats, steroids, and proteins, their transformations in the body, and the composition of the body in health and disease.

ANATOMY 3.—P. 3. Arm and Leg.

2 hours lectures, 4 hours laboratory.

Professor C. P. Martin and Staff

PSYCHOLOGY 34A.—DYNAMICS OF BEHAVIOUR (Half course). Facts and theories of emotion and motivation.

First term: 2 hours and one weekly conference.

Professor Bindra

34b. THEORY OF PERSONALITY (Half course). Consideration of current theories of personality, normal and abnormal.

Second term: 2 hours and one weekly conference.

Professor Bindra

SOCIOLOGY 21Z.—INTRODUCTION TO SOCIOLOGY (Full course).

3 hours.

COURSES OF STUDY

ELECTIVE COURSE—Students will select one of the following subjects:

Bacteriology 4

Fine Arts 201

Economics 100

Psychology 42

PHYSICAL THERAPY 3.

A. A course in the theory and practical treatment by physical and occupational therapy of neurological diseases.

2 hours lectures.

Members of the Staff

B. Discussion of the latest comparative methods of treatment by physical means.

2 hours per week.

Mrs. Gault

OCCUPATIONAL THERAPY 3.

A. A course in Departmental Management.

8 hours

Miss Dunkin

B. A course in therapeutic techniques and their application to specific disabilities.

1. Pottery and lino block printing.

2. Art—instruction in the use of water colours, and oil paints.

2 hours per week.

3. Bookbinding and book repair. Leather carving.

2 hours per week.

Miss E. N. Dunkin

HOSPITAL PRACTICE—240 hours.

FIFTH YEAR (DEGREE COURSE)

PHYSIOLOGY 31.—INTERMEDIATE PHYSIOLOGY (One and one half courses).

A more detailed survey of the subject, with special emphasis on the physiology of man.

3 hours lectures, 3 hours laboratory and seminar.

PSYCHOLOGY 33. DEVELOPMENT PSYCHOLOGY. Third Year (Full course).

The development of human behaviour from early prenatal stages to adolescence, with attention particularly to motor behaviour, language, intelligence, emotion, personality and social behaviour.

3 hours.

Professor Rabinovitch

PHYSICAL AND OCCUPATIONAL THERAPY

EDUCATION 301. General Principles of Education.

3 hours.

ELECTIVE COURSE—Students will select one of the following subjects:

Histology

Genetics 21

Sociology 301 or 303

CLINICAL THERAPY. Review of the more important conditions treated by physical and occupational therapy.

1 hour.

Professor Fish

PHYSICAL THERAPY 4. An advanced course of clinical teaching of conditions where physical therapy and electrotherapy are applicable.

2 hours per week.

Mrs. Gault and Miss E. P. Aston

OCCUPATIONAL THERAPY 4.

A. A study of rehabilitation with emphasis on job analysis, work testing, and pre-vocational assessment.

1 hour per week.

B. A course in special techniques and their adaptations.

I. Construction of self-help equipment and splints.

II. Cane, reed, and raffia work.

40 hours.

Miss E. N. Dunkin

HOSPITAL PRACTICE—500 hours.

12-10-11



12-10-11



McGill University



Montreal

Department of University Extension

Evening Courses

1960-1961

McGill University

Montreal



Department of Library Studies

(1991-1992)

FOREWORD

McGill University through its Extension Department announces its annual program of evening courses, a total this year of 175. Some are new courses selected with a view to meeting new needs and new interests. Most were offered in previous years and have met a good response. The total enrollment last year, including Macdonald College courses, was 8,564.

The Extension Department does not offer courses leading to a Bachelor's degree, but it does offer a good many courses for which diploma or degree credit may be obtained. For example, there are courses leading to a Diploma in French-English Translation; others leading to a Diploma in Management and Business Administration; still others leading to a Graduate Diploma in Electrical and Mechanical Engineering; and the course work required for the Master of Engineering degree in Electrical Engineering may be completed through evening study. Courses preparatory to the examinations of the Institute of Chartered Accountants of Quebec and of the Corporation of Professional Engineers of Quebec are also offered, although in the latter case our offerings are not complete. In addition there are a great many semi-professional and cultural courses which have proved popular over the years.

The courses being offered at Macdonald College will be found at the back of this booklet. If you live near the west end of the island, you may find the courses at Macdonald College more convenient to attend than those at McGill.

It is the aim of the Extension Department to provide for the continuing educational needs of the Montreal community. We welcome you to our classes and we will appreciate your suggestions for improving our offerings. We hope that in this year's program you will find what you need.

The subject index in the pages which immediately follow will give you a quick reference to the content of each course. A registration card is enclosed which should be filled in and sent to the Extension office.

H. R. C. Avison, M.A.

Director of University Extension.

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GENERAL INFORMATION

GENERAL INFORMATION

MACDONALD COLLEGE EXTENSION COURSES. See page 3971.

MCGILL UNIVERSITY EXTENSION COURSES:

REGISTRATION.—You may register by mail, starting September 6th.

Please use the enclosed card, fill in all four sections, and mail it, with your cheque or money order (payable to McGill University), to the Extension Office.

ALL of the information asked for on the card—your address, telephone numbers, employer, educational background, etc.—is important to us in conducting the program and in planning for future courses. If we do not have your telephone number, we cannot notify you of the cancellation of a lecture. We would appreciate your cooperation.

Although registration by mail is advisable, students may register at the University during the day or evening, as follows:

Accountancy Students.—See page 3940.

Other Students.—

Day Registration: *Fourth Floor*, Dawson Hall (East Wing, Arts Building), 9 a.m. to 2:30 p.m., Monday to Friday inclusive, September 6th to October 17th.

Evening Registration: *Ground Floor* (Registrar's Office), Dawson Hall, 6 to 8:30 p.m., Mondays and Wednesdays only, September 12th to October 5th.

First term registration closes October 24th for language classes, and October 31st for all others. Second term registration closes February 8th.

LIMITED CLASSES.—In some of the courses as, for example, language classes, in which the progress of the student is dependent on his participation and the individual attention of the instructor, the size of the class is limited. In such cases, enrolment is on a "first come, first served" basis. It is advisable, therefore, to register early.

FEES.—The fee as indicated for each course is payable in advance, at time of registration. If, after the first lecture *in the course*, you find that the course seems unlikely to meet your needs, a refund of the whole fee may be obtained by presenting your Student card at the Extension office between the hours of 9 a.m. and 4 p.m. No refunds will be made after the date of the second lecture in the course. This means that, if you register for

EXTENSION COURSES

a course *after* the second lecture in that course, you cannot obtain a refund. If refund by mail is desired, the Student card must reach the Extension office *before the second lecture* and three weeks be allowed by the student for receipt of refund cheque.

TRANSFERS.—No transfers from one course to another will be made after the third lecture in the course to which transfer is requested. To transfer, the student must bring his "Student" card to the Extension office and fill out a registration card for the new course.

CANCELLATION OF COURSES.—The student fee charged for these evening courses is essentially what it costs to put them on, assuming a certain minimum registration. If the registration in a course is less than the required minimum, the Committee reserves the right to cancel the course and refund fees.

If you are particularly anxious to take a course, may we suggest that you seek to interest your friends in it in order to ensure that at least this minimum registration is obtained.

EXAMINATIONS.—An examination, optional to students, will be available in the majority of courses. A certificate will be supplied to successful candidates. The pass mark is 50 per cent unless otherwise indicated.

Supplemental examinations will be given in credit courses, i.e., graduate Engineering and M.B.A. Diploma, as well as in some Accountancy courses. All supplemental examinations will be held during the last week in August. Written application should be made, not later than August 1st, to the Extension Department for all supplemental examinations with the exception of Accountancy; for Accountancy supplementals, see page 3944. The fee is \$10 for each supplemental examination and must accompany application.

NOTICES.—In the Arts Building and the New Engineering Building there are Extension notice boards. It is to your advantage to consult these each evening for changes, particulars of examinations etc.

TEXT BOOKS.—All required text books and some of the suggested reference texts may be purchased at The McGill University Book Store, which is open Monday to Friday, from 8:30 a.m. to 5 p.m., and on Saturday from 9 a.m. to noon.

From September 26th to October 20th inclusive, text books will be available *only* at the branch of the Book Store located in the Arts Building basement; this branch store will be open, *Monday to Thursday, from 8:30 a.m. to 8.15 p.m., on Friday until 5 p.m., and on Saturday until 12 noon.*

After October 20th, the text books will be available *only* in the main store at 3416 McTavish Street.

NON-TECHNICAL COURSES

THANKSGIVING HOLIDAY.—No classes will be held on Monday, October 10th.

CHRISTMAS HOLIDAYS.—The last lecture before Christmas will be on Thursday December 15th. The first lecture in 1960, in continuing courses, will be on Monday, January 9th.

For new courses beginning in January, ask in December for special announcement.

EXTENSION OFFICE.—The Extension Office is located in Room 420, Dawson Hall (East Wing of Arts Building).

ENGINEERING BUILDINGS.—The *McConnell* Engineering Building is the new building on the corner of University and Milton Streets. The entrance to the building is on the left after entering the Campus from University Street. The *Macdonald* Engineering Building is the older engineering building adjoining the new one; the main door faces west.

PARKING.—Prospective students should note that no student parking is permitted on the Campus in the evening.

TELEPHONE—VI. 4-6311, Local 304 (before 5 p.m.)

SECTION A

NON-TECHNICAL COURSES

DRAWING AND PAINTING, ELEMENTARY (non-professional). Professor Guy Viau, Department of Fine Arts. Fee \$35.00 per term of 10 periods of 2 hours. Classes limited. Studio: Macdonald Engineering Building, Room 355.

Neither talent nor previous experience is required for these classes which are intended for adults. Experience will be acquired in drawing and painting from life and still life. The course is not one of formal instruction; therefore each person is encouraged to approach the artistic problem with the degree of insight he has and develop this as far as he is able. All materials are supplied except brushes.

A1. First term, Mondays, 8 p.m., beginning October 3rd.

A3. Second term, Mondays, 8 p.m., beginning January 23rd.

DRAWING AND PAINTING, INTERMEDIATE (non-professional). Professor Guy Viau. Fee \$35.00 per term of 10 periods of two hours. Classes limited. Studio: Macdonald Engineering Building, Room 355.

This course is similar to the elementary course and is a continuation of it. Applicants must have had some introductory non-professional instruction, at McGill or elsewhere. All materials will be supplied with the exception of brushes.

EXTENSION COURSES

A2. First term, Thursdays, 8 p.m., beginning October 6th.

A4. Second term, Thursdays, 8 p.m., beginning January 26th.

A5. THE NATURE AND MEANING OF MODERN ART. Professor Winthrop O. Judkins, Department of Fine Arts. 20 lectures of 1½ hours, Thursdays at 8 p.m., beginning October 6th. Arts Building. Fee \$30.00. Class limited.

In this combined lecture and discussion course, an exploratory study will be made of the nature and meaning of 20th century art, in terms of the character of the Modern movement as radical change versus evolutionary progression in the continuity of art history. Planned as a sequel to the course in Traditional art given by Professor Judkins for the past two years, this course will be merely an expansion of the material on Modern art included in courses prior to 1958-59. *Enrollment in this course is necessarily limited to those who have taken one or the other of Professor Judkins' previous courses.*

A6. Identical with the above. Time: Wednesdays at 8 p.m., beginning October 5th.

Applicants must indicate clearly, when registering, the class they wish to take.

A7. INDIAN AND WESTERN MUSIC: A COMPARATIVE STUDY. Dr. Rosette Renshaw, Faculty of Music. 10 lectures of 1½ hours, Mondays at 8 p.m., beginning October 3rd. Conservatorium of Music, 3426 McTavish Street. Fee \$15.00.

Indian music is, like ours, a whole consisting of many parts: instruments; melodic material (ragas); rhythmic patterns (talas); occasional music; highly orthodox music, as organized in its development as a Bach fugue; more liberal, rhapsodic music; romances, folksongs; ballads by Tagore; sacred music.

The course is profusely illustrated with examples recorded by Dr. Renshaw in India. *Texts:* A. N. Sanyal, *Ragas and Raginis* (Orient Longmans); or H. A. Popley, *The Music of India* (Y.M.C.A. Publishing House, Calcutta—available in London).

A8. PRE-SCHOOL MUSIC. Mrs. Gertrude C. MacFarlane, Macdonald College. 10 lectures of 1½ hours, Wednesdays at 8 p.m., beginning October 5th. Conservatorium of Music, 3426 McTavish Street. Fee \$15.00.

This course, for teachers and parents, will explore the possibilities of music for children under six. Materials, methods, and techniques will be considered, with special reference to the particular problems of the members of the group.

NON-TECHNICAL COURSES

INTRODUCTORY SURVEY OF ENGLISH LITERATURE. Mr. Hugh Sproule, Department of English. Two series of ten 1½-hour lectures. Arts Building. Fee \$15.00 each series.

The two series combined offer a chronological survey of English literature from the beginnings to the present day. In each of the major periods of development, a review of the historical and social background will be given and representative authors discussed.

A9. Tuesdays at 8:15 p.m., beginning October 4th.

A9b. Tuesdays at 8:15 p.m., beginning January 24th.

THE NOVEL SINCE 1800. Mr. Hugh Sproule. Two series of ten 1½-hour lectures. Arts Building. Fee \$15.00 each series.

A10. Mondays at 8:15 p.m., beginning October 3rd.

The development of the novel form will be studied and discussed in the following works: *Pride and Prejudice* and *Mansfield Park* (Jane Austen); *The Mill on the Floss* and *Silas Marner* (George Eliot); *Vanity Fair* (Thackeray); *Wuthering Heights* (Emily Brontë); *David Copperfield* (Dickens); *Barchester Towers* and *The Warden* (Trollope).

A11. Mondays at 8:15 p.m., beginning January 23rd.

This phase of the course will deal with the novel from mid-nineteenth century to the present day: *Middlemarch* (George Eliot); *Tess of the d'Urbervilles* (Hardy); *The Way of All Flesh* (Samuel Butler); *Madame Bovary* (Flaubert); *Lord Jim* (Conrad); *A Passage to India* (E. M. Forster); *Of Human Bondage* (Maugham); *An American Tragedy* (Theodore Dreiser); *Point Counterpoint* (Aldous Huxley); *Mrs. Dalloway* (Virginia Woolf).

A13. LIFE AND CULTURE IN RUSSIA: PAST AND PRESENT. Professor M. Mladenovic, Department of History. 10 lectures of 1½ hours, Thursdays at 8:15 p.m., beginning October 6th. Arts Building. Fee \$15.00.

Syllabus: Historical background. Reaction of Muscovy to the West. Impressions of western travellers. The new world of St. Petersburg and the split in Russian society: the Church, modernization; peasant upheaval, the Decembrists. Slavophiles and westernizers. Pan Slavism and Hegel. Reactionaries and revolutionaries. The ambiguous legacy of the intelligentsia. The impact of Marxism-Leninism. Creation of the new Soviet intelligentsia. Revival since Stalin: renaissance or mirage.

A14. SOME ISSUES IN CONTEMPORARY PHILOSOPHY. Mr. A. M. D. Gombay, Department of Philosophy. 10 lectures of 1½ hours, Mondays at 8:15 p.m., beginning October 3rd. Arts Building. Fee \$15.00.

EXTENSION COURSES

An introduction to recent linguistic philosophy and its more immediate background. *Text*: D. Pears, ed., *The Revolution in Philosophy* (Macmillan).

- A15. INTRODUCTION TO SOCIOLOGY. Mrs. Agnes M. Ferguson, Department of Sociology and Anthropology. 10 lectures of 1½ hours, Mondays at 8 p.m., beginning October 3rd. McConnell Engineering Building. Fee \$15.00.

Syllabus: The individual and society. Social groups. The meaning of culture and cultural variation. Personality development. Family organization. Marital adjustment. Community patterns and growth. Social change.

- A16. THE STUDY OF MAN I (Introduction to General Anthropology). Professor Toshio Yatsushiro, Department of Sociology and Anthropology. 10 lectures of 1½ hours, Wednesdays at 8:15 p.m., beginning October 5th. McConnell Engineering Building. Fee \$15.00.

Syllabus: Human origins, types, and evolution; the spread of modern races; the prehistoric development of culture; the nature of society, culture, and language; a brief survey of different primitive cultures of the Old and New Worlds. *Text*: William Howells, *Back of History: The Story of Our Own Origins* (Doubleday, 1954).

- A17. THE STUDY OF MAN II (Cultural Anthropology). Professor Toshio Yatsushiro. 10 lectures of 1½ hours, Wednesdays at 8:15 p.m., beginning January 25th. McConnell Engineering Building. Fee \$15.00.

Syllabus: Examination and comparison of different primitive cultures distributed throughout the world (North and South America, Africa, Middle East, Asia, Melanesia, Polynesia, and Australia), in terms of their family, educational, economic, religious, political, and stratificational systems, their technology, and their value systems. *Texts*: Geo. P. Murdock, *Our Primitive Contemporaries* (Macmillan, 1934); Ruth Benedict, *Patterns of Culture* (Mentor).

- A18. INTRODUCTION TO PSYCHOLOGY. Mrs. P. Richardson, Department of Psychology. 20 lectures of 1½ hours, Mondays at 6 p.m., beginning October 3rd. Arts Building. Fee \$30.00.

This course deals with human behaviour and how psychology tries to explain it; the relation of psychology to social problems, education and medicine; perception, learning, memory, thought, motivation and emotion; intelligence and its measurement; personality and temperament. *Text*: E. R. Hilgard, *Introduction to Psychology*, 2nd ed. (Harcourt Brace; in Canada, W. J. Gage & Co., Toronto.)

NON-TECHNICAL COURSES

- A19. PSYCHOLOGICAL PROBLEMS IN ADJUSTMENT.** Dr. Henry B. Durost, Department of Psychiatry. 10 lectures of 2 hours, Wednesdays at 8 p.m., beginning October 5th. Allan Memorial Institute of the Royal Victoria Hospital, 1025 Pine Avenue West. Fee \$20.00.

This course will approach psychological problems from a theoretical point of view with emphasis placed on the personality as it develops through growth and socialization. It will begin with personality theory and social and cultural processes. This will be integrated with a more detailed study of the organism from before birth through old age, using the personality theory and our understanding of social and cultural processes as a framework.

- A20. UNDERSTANDING OURSELVES.** Dr. J. L. Lapointe and Staff, Department of Psychiatry. 10 lectures of 2 hours, Wednesdays at 8 p.m., beginning January 25th. Allan Memorial Institute of the Royal Victoria Hospital, 1025 Pine Avenue West. Fee \$20.00. Class limited.

It is strongly recommended, although not required, that Course A19 be taken first. In Course A20 the class will be divided into groups of 20 or less, with an individual instructor. Consideration will be given to human problems, and interpretation and methods of handling them will be offered, emphasis being placed on the application of psychodynamics and group dynamics to the problems of everyday living. Particular attention will be paid to learning through participation and experience in the group setting. The subject matter of this course will also be valuable to personnel supervisors and to those responsible for group and recreational programs.

LAW FOR THE LAYMAN. These courses are intended to cover in a very general and non-technical manner various legal problems which the ordinary citizen is apt to meet. The lecturer will endeavour to point out the problems and give certain suggestions as to what they really mean and how they should be dealt with.

- A21. LAW FOR THE LAYMAN I.** Mr. Alexander McT. Stalker. 10 lectures of 1½ hours, Tuesdays at 8:15 p.m., beginning October 4th. Arts Building. Fee \$15.00.

This course will deal briefly with the system of law obtaining in the Province of Quebec; the different courts in the Province; what is involved in a lawsuit; the functions of the lawyer and his relationship to his client; ways of conducting business (partnership, corporations, etc.) and their advantages and disadvantages; registration of businesses; agency; some brief comments on taxation and bankruptcy; elements of obligations and contracts and some comments on negligence and its results.

EXTENSION COURSES

- A22. LAW FOR THE LAYMAN II.** Mr. Alexander McT. Stalker. 10 lectures of 1½ hours, Tuesdays at 8:15 p.m., beginning January 24th. Arts Building. Fee \$15.00.

This course will deal particularly with the family, its status and members; marriage and divorce; property in the family; married women in the Province of Quebec; life insurance; gifts; estates and wills; succession duties; buying Real Estate, suggestions to follow and things to watch for.

- CURRENT EVENTS.** Professors Michael Oliver and Saul Frankel, Department of Economics and Political Science. Fee \$15.00 per term of 10 lectures of 1½ hours. McConnell Engineering Building.

In these courses each lecture will be devoted to a problem of current public importance, and an attempt will be made to set contemporary events in their proper historical context and perspective. Opportunity will be provided for class discussion at each lecture.

- A23.** First term, Wednesdays at 8:15 p.m., beginning October 5th.

- A24.** Second term, Wednesdays at 8:15 p.m., beginning January 25th.

- A26. WOODLOT FORESTRY.** Professor A. R. C. Jones, Department of Woodlot Management, Macdonald College; and Mr. J. L. Van Camp, Canadian Forestry Association. 10 lectures of 1½ hours, Thursdays at 8 p.m., beginning January 26th. Fee \$15.00.

This is a practical course for small-woodlot owners. It will include forestry problems as related to Quebec woodlots and government extension services available to woodlot owners; tree identification; protection of woodlots, control of insects, disease, fire and other agencies; growth of trees and stands; measurement of standing timber and important woodlot products; planting techniques; improvement of young stands; marking and selective cutting in older forests; woodlot regulation and marketing possibilities. The course will include three field trips in the spring.

- A27. GROUP LEADERSHIP.** Mr. Morris Sinuk, Allan Memorial Institute. 10 lectures of 2 hours, Tuesdays at 8 p.m., beginning October 4th. Allan Memorial Institute of the Royal Victoria Hospital, 1025 Pine Avenue West. Fee \$20.00. Class limited.

This course is designed to provide practical and theoretical knowledge of group dynamics. It is offered to business men and women and members of clubs and organizations who wish to improve their effectiveness as executives or active members of business and community groups. The class will be divided into groups of twenty or less with an individual

TECHNICAL COURSES

instructor. Presentation of current theories of group organization, operation and dynamics will be combined with practical experience in group discussion, decision making, role playing, and leadership experience.

LOOKING AHEAD TO MARRIAGE AND FAMILY LIFE. Two classes of ten 2-hour lectures. School of Social Work, 3600 University Street. Fee \$20.00 for each class. Both classes limited to 16.

This course is designed to increase understanding of the basic relationship between men and women, and to clarify the attitudes of young people contemplating marriage. Social, emotional and vocational readiness for marriage will be considered. Emphasis will be given to the role expectations of the marital partners in our rapidly changing modern society; relationships to parents and in-laws, and the implications of parenthood will be discussed. Instruction will be through lectures, films and group discussion. Three sessions will be devoted to discussion with specialists from the fields of medicine, law and the ministry.

A28. Professor Dorothy Freeman, School of Social Work. Thursdays at 7:30 p.m., beginning October 13th.

A29. Mrs. Dorothy Barrier, Executive Director, Marriage Counselling Centre. Tuesdays at 4 p.m., beginning October 11th.

A30. **PHYSICAL AND EMOTIONAL PROBLEMS OF THE MIDDLE YEARS OF LIFE.** Dr. Axel Russell, Department of Psychiatry. (Associated Psychiatric Social Worker: Mrs. L. Russell). 10 lectures of 2 hours, Thursdays at 8 p.m., beginning October 6th. Allan Memorial Institute of the Royal Victoria Hospital, 1025 Pine Avenue West. Fee \$20.00.

The course is designed to meet the needs of both men and women who are passing through or will shortly pass through the middle years of (married) life and its attending physical and emotional problems. The course will be given by a Psychiatrist on the staff of the Mental Hygiene Institute and a Psychiatric Social Worker. It will consist of films, lectures and group discussion.

In addition, each participant will be offered an opportunity for an individual health assessment by the Well-Being Clinic of the Allan Memorial Institute, in order to insure that, as far as possible, they will be enabled to appreciate their specific modes of handling the physical, psychological and social problems that are encountered at this time of life and be given some idea of the relative effectiveness of their own individual responses. Married couples are especially invited. *Text:* D. Ewen Cameron, *Life Is for Living* (Macmillan).

A31. **HOME MANAGEMENT.** Professor Helen L. Devereaux, Mrs. Marion Zarkadas and Miss Frances Tucker, School of Household Science,

EXTENSION COURSES

Macdonald College. 10 lectures of 1½ hours, Tuesdays at 8 p.m., beginning January 24th. McConnell Engineering Building. Fee \$15.00.

This course is designed to aid women in the management of resources in the home. Among the topics discussed will be food selection, work simplification, selection of household equipment, and kitchen planning.

- A32. THE RELIGIONS OF INDIA. Professor C. J. Adams, Institute of Islamic Studies. 10 lectures of 1½ hours, Wednesdays at 8 p.m., beginning October 5th. Arts Building. Fee \$15.00.

This survey of the historical development of religion in India from the time of the Indus Valley civilization to the present will deal with the religion of the Vedas, and of the Brahmanas and Upanishads; the four aims of life according to the Hindus; caste and Hindu ethics; theistic Hinduism (Vaishnavism, Saivism and Shaktism with particular emphasis on the Bhagavad Gita); the mediaeval reformation of Hinduism (Shankara and Ramanuja); and modern trends in Hinduism (Sri Ramakrishna, Tagore and Gandhi). Two major offshoots of the Hindu tradition, the religion of the Jains and that of the Sikhs, will also be discussed. *Text*: Huston Smith, *The Religions of Man* (Mentor).

- A33. THE ART OF MAKING FRIENDS. Mrs. Phyllis Poland and Staff, Well-Being Clinic, Allan Memorial Institute. 10 lectures of 1½ hours, Tuesdays at 8 p.m., beginning January 24th. Allan Memorial Institute of the Royal Victoria Hospital, 1025 Pine Avenue West. Fee \$15.00. Class limited.

This course is offered to people of all ages who would like to broaden their social contacts and interests, and to get fuller enjoyment out of life. Having friends and satisfying leisure-time pursuits are just as important for emotional health as good nutrition is for physical health. Each lecture will consist of an outline of current trends and difficulties in modern city living, and suggestions for creative evening and weekend activities will be given. To ensure that all taking this course will have the opportunity to express their ideas and discuss their individual needs, classes will be limited to 25, each with an individual instructor. *Text*: D. Ewen Cameron, *Life Is for Living* (Macmillan).

- A34. THE OLDER CITIZEN IN OUR SOCIETY. Mrs. Lotte Marcus, Allan Memorial Institute. 10 lectures of 1½ hours, Thursdays at 8 p.m., beginning January 26th. Allan Memorial Institute of the Royal Victoria Hospital, 1025 Pine Avenue West. Fee \$15.00. Class limited to 25.

This course is designed for older people, their families, friends and all those interested in one of the most vital issues of our time. The first part of the course will consist of formal lectures, the second of group discussion. Lectures will deal with the senior citizen at work, in retirement

TECHNICAL COURSES

and in his leisure hours; will describe his special needs in homes, hospitals, institutions; and discuss some mental health aspects of aging. Attention will be given to the present Montreal scene with a focus on possible future developments in this field. In the group discussion, students will be encouraged to present their own points of view, their ideas and experiences.

SECTION B

TECHNICAL COURSES

ENGINEERING COURSES—UNDERGRADUATE LEVEL

- B1. **ALGEBRA AND ANALYTICAL GEOMETRY.** Mr. I. H. Shtern, Department of Mathematics. 20 lectures of 2 hours, Mondays at 8 p.m., beginning October 3rd. McConnell Engineering Building. Fee \$40.00.

This course is intended for students preparing to write the C.P.E.Q. "Fundamentals of Engineering" examinations, although it is open to others interested.

Syllabus: Algebra—Indices, logarithms, quadratic equations, complex numbers, interest and annuities, graphs, series, permutations and combinations, binomial theorem, complex numbers, vectors, exponential series, partial fractions. *Analytical Geometry*—Rectangular and Polar co-ordinates, the straight line, circle, parabola and ellipse. *Text:* Elliott and Miles, *College Mathematics: A First Course* (Prentice-Hall).

- B2. **CALCULUS.** Professor David Sussman, Department of Mathematics. 20 lectures of 2 hours, Tuesdays at 6 p.m., beginning October 4th. McConnell Engineering Building. Fee \$40.00. *Prerequisite:* Course B1, or equivalent.

Syllabus: Limits, functional notation, differentiation of elementary functions, derivatives of sums, products and quotients, maxima and minima, differentiation of trigonometric, exponential and logarithmic functions, geometric applications, differentials. Integration of standard functions, definite integrals, areas and volumes, geometrical and physical applications. *Text:* Middlemiss, *Differential and Integral Calculus* (McGraw-Hill).

- B3. **MECHANICS I.** Professor V. W. G. Wilson, Department of Civil Engineering. 20 lectures of 2 hours, Mondays at 6 p.m., beginning October 3rd. McConnell Engineering Building. Fee \$40.00. *Prerequisite:* Calculus, as given in CPEQ examination syllabus, or equivalent.

This course in dynamics and statics will include the following topics: *Dynamics*—general motion involving displacement, velocity, and acceleration, rectilinear motion; composition and resolution of vectors; motion

EXTENSION COURSES

of projectiles; impulse and momentum; work, energy, and power; impact of a stream of particles. *Statics*—elementary frame analysis including equilibrium of concurrent and non-concurrent coplanar force systems; funicular polygon; simple beam reactions; forces in frame-works of two-force members by method of sections and by graphics; elementary friction. *Text*: McLean and Nelson, *Theory and Problems of Engineering Mechanics* (Schaum).

- B4. **STRENGTH OF MATERIALS.** Professors D. Selby, W. Mathison and C. Goldman, Department of Civil Engineering. 20 lectures of 2 hours, Tuesdays at 8 p.m., beginning October 4th. McConnell Engineering Building. Fee \$40.00. *Prerequisites*: Calculus and Mechanics I.

Topics: Stress, strain, resilience, and elastic properties of materials; bending moment and shear diagrams; simple, fixed, and continuous beams; reinforced concrete beams; torsion and bending in shafts and springs; columns; bending combined with direct stress; elementary consideration of compound stresses; distribution of shear. *Text*: Popov, *Strength of Materials* (Prentice-Hall).

- B5. **THEORY AND PRACTICE OF SURVEYING.** Professor Louis J. Arcand, Department of Civil Engineering. 25 lectures of 2 hours, Tuesdays at 6 p.m., beginning October 4th. Macdonald Engineering Building. Fee \$50.00. *Prerequisite*: High School Matriculation.

The lectures deal with the operation of the various types of Engineer's Levels, the Universal Transit and the art of measurement, for surveying practice in the field and in the shop. Emphasis will be placed on the use of the various units of measurement employed in the Province of Quebec, the adjustments of the instruments, the use of coordinates for area determination and computation of volumes, simple circular and easement curves, the theory and use of the polar planimeter and partition of land. A certain number of periods will be set aside for the students' use of survey instruments. Instruments, equipment and display panels will be available for demonstration. *Texts*: Davis and Foote, *Surveying* (McGraw-Hill); Breed and Bone, *Surveying*, 2nd ed. (Wiley).

- B6. **INTRODUCTION TO ENGINEERING DESIGN.** Mr. Francis Howitt, Department of Mechanical Engineering. 20 lectures of 2 hours, Tuesdays at 6 p.m., beginning October 4th. McConnell Engineering Building. Fee \$40.00. *Prerequisite*: Calculus and Mechanics I, or equivalent.

This course provides a basic training in machine design and an intensive review of related engineering subjects. *Syllabus*: Application of theory to practical engineering problems, design procedure, material selection, safety factors, fundamentals of stress analysis, and the design of basic

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machine elements including screws, riveted and welded joints, shafts, bearings, brakes, clutches, flexible drives and gears. *Text:* Vallance and Doughtie, *Design of Machine Members* (McGraw-Hill).

- B7. FUNDAMENTALS OF ILLUMINATION.** Messrs. A. H. Mendel and R. S. Tate. 10 lectures of 2 hours, Tuesdays at 6 p.m., beginning January 24th. McConnell Engineering Building. Fee \$20.00.

Syllabus: Incandescent light sources; fluorescent light sources and ballasts; measurement of light; lighting systems—fixture evaluation; lighting design; quantity and quality of light; school and office, store, and industrial lighting; floodlighting and sports lighting. *Recommended text:* Illuminating Engineering Society, *I.E.S. Handbook*.

- B8. METHOD AND TIME STUDY.** Mr. B. O. Winter, Canadian Industries Ltd., and others. 20 lectures of 2 hours, Wednesdays at 6 p.m., beginning October 5th. McConnell Engineering Building. Fee \$40.00. *Prerequisite:* High School Matriculation.

The method study will consist of lectures on various method study charts, motion economy, human engineering, film analysis and memo-motion technique, statistics and plant layout. A number of problems will be incorporated to demonstrate the techniques practised.

In time study the sessions will cover subjects such as time study procedures, effort rating, objective rating, compensating rest allowances, use of film loops and statistical quality control for rating consistency, development and use of standard data charts and formulae, analytical estimating and random observation study.

- B9. STATISTICAL QUALITY CONTROL.** Professor A. Asimakopulos, Department of Economics and Political Science, and Mr. R. E. J. Rose, Canadian Industries Limited. 20 lectures of 2 hours, Tuesdays at 6 p.m., beginning October 4th. McConnell Engineering Building. Fee \$40.00. *Prerequisite:* High School Matriculation; some calculus desirable.

Syllabus: Introduction—the concept of Statistical Quality Control; frequency distributions; measures of variation and central tendency; grouping of raw data; average and range charts—their construction and use; percent defective charts; other forms of controls; theory of probability; tests of hypotheses; statistical sampling inspection; OC curves; MIL—STD—105A tables; attribute and variable sampling inspection plans; vendor quality level certification; sequential methods; SQC and tests of significance in general; introduction to advanced topics; recent industrial and practical problems. *Texts:* A. J. Duncan, *Quality Control and Industrial Statistics* (Irwin); *ASTM Manual on Quality*

EXTENSION COURSES

Control of Materials (American Society for Testing Materials); *MIL-STD-105A: Sampling Procedures and Tables for Inspection by Attributes* (U.S. Government Printing Office).

- B10. **MATHEMATICS FOR HIGH SCHOOL TEACHERS.** Professor E. Rosenthal, Department of Mathematics. 20 lectures of 1½ hours, Tuesdays at 6:30 p.m., beginning October 4th. McConnell Engineering Building. Fee \$30.00. *Prerequisite:* High School Matriculation.

For the most part the topics discussed will be those found in the traditional high school courses, but some topics which may find their way into high school mathematics curricula will also be considered. The traditional techniques and their modifications will be presented, but attention will be paid to the basic concepts and mathematical structure which give meaning to these skills and provide a logical framework for these facts.

The topics considered will be selected from the following: number systems; laws of algebra; sets; one-to-one correspondence; functions and graphs; linear and quadratic equations; inequalities; coordinate trigonometry and vectors; the postulational method; aspects of Euclidean geometry; matrices; elements of number theory; impossible and unsolved problems; growth of mathematical ideas.

- B11. **ENGINEERING ELECTRONICS.** Messrs. Eric L. Adler and Peet Silvester, Department of Electrical Engineering. 20 lectures of 2 hours, Tuesdays at 6 p.m., beginning October 4th. McConnell Engineering Building. Fee \$40.00. *Prerequisite:* High School Matriculation.

This first course in electronics and electronic circuit theory is designed to fulfill the requirements of the C.P.E.Q. examination syllabus, but is open to others interested. Subjects covered will include: Electron emission; motion of charged particles in electric and magnetic fields, the cathode ray oscilloscope; the properties of diodes, triodes, tetrodes, pentodes and transistors; audio-frequency amplifiers; radio frequency amplifiers; vacuum-tube and semiconductor rectifiers; feedback; oscillators; gas-filled and mercury vapour tubes; photoelectric tubes. *Text:* G. E. Happell and W. M. Hesselberth, *Engineering Electronics* (McGraw-Hill).

- B12. **ELECTRIC MACHINES.** Professor R. P. Comsa, Department of Electrical Engineering. 20 lectures of 2 hours, Wednesdays at 6 p.m., beginning October 5th. McConnell Engineering Building. Fee \$40.00. *Prerequisite:* High School Matriculation.

Although this course is intended for students preparing to write the C.P.E.Q. "Electric Machines" examination, it is open to others interested.

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Syllabus: Basic concepts of energy conversion in electrical machines. Direct current machinery, windings, armature reaction, commutation. Characteristics of direct current shunt, compound and series generators and motors. Direct current generators in parallel. Transformers, equivalent circuits, polyphase connections. Polyphase machinery, theory, construction and operation. Polyphase synchronous generators, motors and condensers. Polyphase induction motors, equivalent circuits. Single-phase motors. Special d.c. and a.c. machines. Starting and control of motors.

- B13. PLASTICS TECHNOLOGY.** (In collaboration with the Society of Plastics Engineers—Montreal Section.) Professor R. V. V. Nicholls, Department of Chemistry, and others. 20 lectures of 2 hours, Tuesdays at 6 p.m., beginning October 4th. McConnell Engineering Building. Fee \$40.00. *Prerequisite:* High School Matriculation.

Syllabus: Organization of the plastics industry; nomenclature of plastics. Relationship between molecular structure and mechanical properties. Polymerization: methods and theory. Compounding of plastics. Processing techniques. Test methods. Phenolics; ureas, melamines; alkyls, polyesters, epoxys; cellulose; polystyrenes; vinyls, acrylates; polyamides; polyethylenes, polypropylenes; silicones and other non-carbon plastics. Inspection and quality control. Plastics of the future (panel discussion).

- B14. MATHEMATICAL STATISTICS.** Professor A. Joffe, Department of Mathematics. 20 lectures of 2 hours, Wednesdays at 8 p.m., beginning October 5th. McConnell Engineering Building. Fee \$40.00. *Prerequisite:* Calculus.

Syllabus: The nature of statistical methods; descriptive statistics; the probability background; theoretical frequency distributions and the normal distribution; sampling from the normal distribution; point and interval estimation; tests of hypotheses.

ENGINEERING COURSES—GRADUATE LEVEL

For graduates in Engineering or Physics; not open to non-graduates.

Graduate engineers engaged in research, design and development work in Electrical and Mechanical Engineering and in Aeronautics require more advanced training than can be included in undergraduate courses. The courses listed below have been designed to provide this advanced training and, in addition, they offer the opportunity to properly qualified students to complete the course requirements for an advanced Diploma or Master's degree while gainfully employed. Complete details of the course and

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other requirements for the Graduate Diploma in Electrical and Mechanical Engineering, the M.Eng. degree in Electrical Engineering, and the M.Sc. in Electrical Communications may be obtained on request at the Extension Office.

In order to meet the needs of graduate engineers and physicists in the Ottawa area, graduate courses in Electrical Communications sponsored by McGill are offered in the evening at Carleton University, Ottawa. These courses may also be taken for credit toward a Diploma or Master's degree.

Electrical Engineering

- B15. FEEDBACK CONTROL SYSTEMS.** Professor G. L. d'Ombrain, Department of Electrical Engineering. 20 lectures of 2 hours, Thursdays at 6 p.m., beginning October 6th. McConnell Engineering Building. Fee \$40.00,

Syllabus: Open and closed loop system generalization. Block and flow diagram representation. Representation of mechanical, thermal, pressure, level and electrical systems by linear differential equations. Behaviour of first-order and cascaded first-order systems. Behaviour of second-order system. Determination of stability of closed loop systems using the methods of Nyquist, Bode and root locus techniques. Transient behaviour of closed loop system using Laplace Transform methods. Non-linear systems investigated by describing function and phase-plane methods. Review of methods of instrumentation for position, velocity, acceleration, temperature pressure level flow, velocity and pH.

- B16. MICROWAVE THEORY AND TECHNIQUES.** Professor T. J. F. Pavlasek, Department of Electrical Engineering. 20 lectures of 2 hours, Tuesdays at 8 p.m., beginning October 4th. McConnell Engineering Building. Fee \$40.00. Class limited.

This is a course in the fundamentals and applications of microwave transmission, circuits and measurements. It is assumed that the student is acquainted with basic field equations and vector methods. The course will include practical demonstrations in the laboratory, and due to space limitations the number of students is restricted to 25.

Syllabus: Review of transmission line circuit theory and practice. Theory of transmission systems (co-axial lines, rectangular circular ridged etc. waveguides) from basic field equations. Theory and operation of microwave circuit devices such as hybrid junctions, directional couplers, cavities, filters, attenuators, phase shifters. Application of ferrites to isolators, modulators, circulators and of periodic structures to

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delay lines etc. Principles and demonstrations of laboratory measurements and techniques. *Text:* Reich, Ordung, Krauss, Skalnik, *Microwave Theory and Techniques* (Van Nostrand).

- B17. INDUSTRIAL VIBRATION AND NOISE REDUCTION.** Professor F. S. Howes, Department of Electrical Engineering. 20 lectures of 2 hours, Mondays at 6 p.m., beginning October 3rd. McConnell Engineering Building. Fee \$40.00.

The problem of vibration and noise reduction in industrial plants and buildings requires some knowledge of acoustics and special measuring techniques. This course will present details of techniques and materials for noise and vibration reduction and methods for measuring a wide variety of noises. *Topics:* Basic terminology and concepts; measurement of noise; psychological aspects; room acoustics theory; noise reduction in rooms; transmission of sound through structures; characteristics of noise sources; materials and structures for noise reduction; mufflers and vibration isolators; machinery and ventilation-system quieting. *Text:* Beranek, *Acoustics* (McGraw-Hill).

- B18. SOLID STATE PHYSICS.** Professor D. R. Stevenson, Department of Physics. 20 lectures of 2 hours, Wednesdays at 8 p.m., beginning October 5th. McConnell Engineering Building. Fee \$40.00.

In this course the physics necessary for an understanding of the electrical and magnetic properties of various solids will be discussed. Although the major effort of the lectures will be to establish and elaborate on the physical principles involved, some attention will be given to characteristics of solids which are of technical interest.

Topics covered will include: Classification of crystal structures; ionic crystals; dielectric properties; lattice vibrations and thermal properties; free electron theory of metals; electronic structure and band theory; electrical conduction; photoconductivity; properties of semiconductors; paramagnetism and diamagnetism; ferromagnetism, antiferromagnetism, and ferrimagnetism. *Text:* C. Kittel, *Introduction to Solid State Physics*, 2nd edition, (Wiley).

- B19. MICROWAVE RADIATION AND GENERATION.** Dr. M. P. Bachynski, RCA Victor Research Laboratories. 20 lectures of 2 hours, Mondays at 8 p.m., beginning October 3rd. McConnell Engineering Building. Fee \$40.00.

This is a course on the fundamentals and applications of radiation of microwave energy from various structures and generation of microwave energy. The subject matter includes: *Radiation from antennas*—antenna pattern synthesis, Fourier transform theory in antenna design, multipole moments, microwave radiators such as horns, dipoles, reflectors, lenses,

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slot arrays, surface-wave antennas, etc. *Generation of microwave energy*—motion of electrons in electric and magnetic fields, principles of velocity modulation and bunching, slow wave interaction; applications to magnetrons, klystrons, travelling wave tubes, backward wave oscillators; the Mathieu equation, non-linear and molecular amplifiers such as masers and masers.

- B20. APPLIED MATHEMATICS I.** Professor P. R. Wallace, Department of Mathematics. 20 lectures of 2 hours, Wednesdays at 6 p.m., beginning October 5th. McConnell Engineering Building. Fee \$40.00.

This course deals with the mathematical methods of engineering: vector analysis; Fourier series and other expansions and their use in differential equations of engineering; Fourier and Laplace Transforms. A selection of basic problems arising in engineering is treated, and the commonly occurring functions and differential equations are studied. The course is designed to extend the power of the graduate engineer to understand and use the mathematical techniques employed in the modern literature in radiation theory, circuit analysis, etc. *Texts:* Hildebrand, *Advanced Calculus* (Prentice-Hall); Skilling, *Fundamentals of Electric Waves* (Wiley).

- B21. COMPLEX VARIABLE FOR ENGINEERS.** Professor Samuel Melamed, Department of Mathematics. 20 lectures of 2 hours, Thursdays at 6 p.m., beginning October 6th. McConnell Engineering Building. Fee \$40.00. *Prerequisite:* Calculus.

Syllabus: Elementary theory of Analytic Functions, Cauchy Theorem and Consequences; Significance of singularities; poles and residues; evaluation of real definite integrals; conformal mapping, Schwarz-Christoffel Transformation, applications to two-dimensional potential distributions in current and fluid flow problems; complex treatment of electric transient phenomena; Nyquist Stability Criteria. *Text:* R. V. Churchill, *Introduction to Complex Variables and Applications* (McGraw-Hill).

- B22. DIGITAL COMPUTING AND ELEMENTARY NUMERICAL ANALYSIS.** Professor W. D. Thorpe, Technical Supervisor of the McGill Computing Centre. 20 lectures of 2 hours, Mondays at 8 p.m., beginning October 3rd. McConnell Engineering Building. Fee \$40.00.

This course is intended as an introduction to the application of electronic digital computers in the fields of engineering, science and allied subjects.

Syllabus: Automatic Digital Computers—functions and components, number representation, memory, input-output, arithmetic and control units, coding and programming with particular reference to the IBM

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650 system, flow charts, subroutines and automatic coding systems. *Numerical Analysis*—description without rigorous formulation of commonly used methods including finite differences, interpolation, differentiation and integration, ordinary and partial differential equations, inversion of matrices and systems of linear equations, non-linear systems, least squares principle, smoothing of data, Fourier series, harmonic analysis, regression and linear programming.

- B23. THE GENERALIZED THEORY OF ELECTRIC MACHINES.** Professor T. H. Barton, Department of Electrical Engineering. 20 lectures of 2 hours, Thursdays at 8 p.m., beginning October 6th. McConnell Engineering Building. Fee \$40.00.

The theory of mutually coupled circuits will be extended to cover the case of relative motion between the circuits, and the generalized theory will be applied to electric machines. Steady state, hunting and transient behaviour of a wide range of machines will be investigated and the effects of magnetic non-linearities will be considered.

- B24. ELECTRICAL MACHINE DESIGN.** Professor Walter H. Schippel, Department of Electrical Engineering. 20 lectures of 2 hours, Tuesdays at 6 p.m., beginning October 4th. McConnell Engineering Building. Fee \$40.00.

This course will cover the application of single-phase, polyphase, and D.C. electrical motors in industry and their design to meet diverse requirements of starting and operating conditions. Actual designs will include polyphase squirrel-cage and wound-rotor motors; single-phase motors with split-phase and capacitor starting; shunt, stabilized-shunt, compound and series D.C. motors; A.C. and D.C. generators; transformers, auto-transformers, and reactors. Design problems will be assigned.

- B25. NUMERICAL ANALYSIS AND COMPUTER PROGRAMMING.** Professor G. G. Bach, Department of Mathematics. 20 lectures of 2 hours, Wednesdays at 6 p.m., beginning October 5th. McConnell Engineering Building. Fee \$40.00.

This is a more advanced course than No. B22 and it requires a background in advanced differential equations.

During the first part of the course, computer programming will be taught with special reference to the IBM 650. The second part will deal with the techniques of numerical methods in solving a large variety of problems on computers. Practical use of the machine will be made during the course. *Text:* Hildebrand, *Introduction to Numerical Analysis* (McGraw-Hill).

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MECHANICAL ENGINEERING

- B30. PROCESS HEAT TRANSFER.** Professor J. W. Stachiewicz, Department of Mechanical Engineering. 20 lectures of 2 hours, Mondays at 8 p.m., beginning October 3rd. McConnell Engineering Building. Fee \$40.00.

This is a course on design of industrial heat transfer equipment with a special stress on design of shell-and-tube and other types of compact exchangers for oil refineries, power plant, gas turbines and other industrial processes. Latest methods of design will be discussed. Emphasis is on the thermal aspects of design, but mechanical features are also discussed. *Text: Standards of Tubular Exchanger Manufacturers' Association.*

- B31. NUCLEAR ENGINEERING.** Professor A. Robert Edis, Department of Mechanical Engineering. 20 lectures of 2 hours, Thursdays at 8 p.m., beginning October 6th. McConnell Engineering Building. Fee \$40.00.

This course is concerned with the engineering of the reactor core and is designed to meet the needs of graduate engineers who desire to study the special problems of nuclear reactor core design. Those taking the course should be familiar with mechanics, elementary physics, and mathematics to differential equations.

First principles are stressed in studying the behavior of particles, particularly the neutron, the attainment of critical size, the arrangement of the fuel-rod lattice, and the neutron economy in the reactor.

- B32. GENERAL AERODYNAMICS.** Professor J. H. T. Wu, Department of Mechanical Engineering. 20 lectures of 2 hours, Mondays at 6 p.m., beginning October 3rd. McConnell Engineering Building. Fee \$40.00.

Syllabus: Kinetic theory of gases; Newtonian theory of hypersonic flow; incompressible non-viscous two-dimensional flow; lifting line theory for wings; boundary layer theory; airplane performance; static stability and control; supersonic flow and shock waves.

- B33. APPLIED MATHEMATICS II.** Professor T. F. Morris, Department of Mathematics. 20 lectures of 2 hours, Tuesdays at 8 p.m., beginning October 4th. McConnell Engineering Building. Fee \$40.00.

The course will begin with a review of differential equations and will go on to develop those mathematical techniques essential for the treatment of problems in vibration, elasticity, heat flow, etc. of particular interest to mechanical engineers. *Text: L. A. Pipes, Applied Mathematics for Engineers and Physicists, 2nd edition (McGraw-Hill).*

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B34. APPLICATIONS OF ADVANCED MATHEMATICS TO ENGINEERING DESIGN.

Professor S. S. Hyder, Department of Mechanical Engineering. 20 lectures of 2 hours, Tuesdays at 6 p.m., beginning October 4th. McConnell Engineering Building. Fee \$40.00.

The purpose of this course is to enable the graduate engineer to analyze and solve complex engineering problems by the application of advanced mathematical technique. It will also permit him to study and appreciate the more advanced literature in technical and research journals. Specific applications of Fourier Series and transforms, vector and tensor analysis, partial differential equations and approximate methods, to problems in stress analysis, fluid dynamics, chemical diffusion, heat transfer and vibration will be considered, and numerical solutions will be sought. Elementary numerical analysis for use in electronic computers will also be studied. Students are expected to take homework assignments and may be required to demonstrate their solutions in class. *Text:* Sokolnikoff and Redheffer, *Mathematics of Physics and Modern Engineering* (McGraw-Hill).

B35. AIRCRAFT STRUCTURES. Professor A. Robert Edis, Department of Mechanical Engineering. 20 lectures of 2 hours, Mondays at 8 p.m., beginning October 3rd. McConnell Engineering Building. Fee \$40.00.

Syllabus: General examination and calculation of properties of shell construction and redundant frames; application to actual wings, fuselages, etc.; modern developments in materials and in fabrication methods such as plastics and metal bonding; special problems such as landing gear energy absorption, strength; engine mounting design; pressure cabins. *Text:* Niles and Newell, *Airplane Structures* (Wiley).

B36. AERODYNAMICS: IDEAL FLUID THEORY. Professor B. G. Newman, Department of Mechanical Engineering. 20 lectures of 2 hours, Thursdays at 6 p.m., beginning October 6th. McConnell Engineering Building. Fee \$40.00.

Syllabus: *Fundamentals*—Kinematics; equations of motion, vorticity and circulation; solutions of Laplace's equation; conformal mapping; steady and unsteady motion round simple bodies. *Application*—Two-dimensional aerofoils; airscrews and ducted fans; low and high aspect ratio wings; wind tunnel interference. The course will be supplemented by demonstration and experiment in the laboratory. *Text:* Glauert, *Aerofoil and Airscrew Theory* (Cambridge University Press).

B37. AERODYNAMICS: VISCOUS FLOW AND BOUNDARY-LAYER THEORY. Professor B. G. Newman. 20 lectures of 2 hours, Wednesdays at 6 p.m., beginning October 5th. McConnell Engineering Building. Fee \$40.00.

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Syllabus: Navier-Stokes equations; exact solutions for laminar incompressible flow; laminar boundary-layer theory, exact and approximate methods; transition; turbulent boundary-layer theory, laws of wall and wake, approximate methods; extension to compressible flows; practical considerations including boundary-layer control, aerodynamic heating, shock-wave boundary-layer interaction and methods of measurement.

The course will be supplemented by demonstration and experiment in the laboratory. *Text:* Schlichting, *Boundary-Layer Theory* (Pergamon Press).

- 839. HYPERSONIC FLOW.** Professor J. Swithenbank, Department of Mechanical Engineering. 20 lectures of 2 hours, Mondays at 6 p.m., beginning October 3rd. McConnell Engineering Building. Fee \$40.00.

Syllabus: Definitions, real gas effects, hypersonic similarity rule, Newtonian theory, nozzle flow, normal and oblique shock relations, viscous flow, heat transfer, rarefied gas flow, research techniques.

- 840. PRODUCT ENGINEERING.** Professor John Cherna, Department of Mechanical Engineering. 20 lectures of 2 hours, Mondays at 6 p.m., beginning October 3rd. McConnell Engineering Building. Fee \$40.00.

Syllabus: *Product Design*—Product analysis and development; product differentiation; product simplification; standardization. *Process Planning*—Operation sequence and process coordination; selection and specification of processes, machines, tools and gauges.

- 841. PRODUCTION CONTROL ANALYSIS.** Professor S. S. Hyder, Department of Mechanical Engineering. 20 lectures of 2 hours, Thursdays at 6 p.m., beginning October 6th. McConnell Engineering Building. Fee \$40.00.

Syllabus: Probability; frequency distribution; statistical analysis of production variables; tests of significances; correlation and regression analysis; sampling procedures; control charts; design of experiments; analysis of variance; operational research; linear programming. *Texts:* Duncan, *Quality Control and Industrial Statistics* (Irwin); Bowker and Lieberman, *Engineering Statistics* (Prentice-Hall).

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- 843. ADVANCED SOIL MECHANICS AND FOUNDATION ENGINEERING.** Professor Raymond Yong, Department of Civil Engineering. 10 lectures of two hours, Tuesdays at 8 p.m., beginning October 4th. McConnell Engineering Building. Fee \$20.00.

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Syllabus: Physico-chemical analysis of soils, soil structure and related characteristics, soil freezing, ion and base exchange, groundwater and seepage, effective stresses, pore-pressure studies and coefficients, advanced design theories using effective stresses, lateral pressure and equilibrium, theoretical concepts on pile design, settlement analyses.

- B44. CHEMICAL ENGINEERING RATE OPERATIONS.** Professor W. J. M. Douglas, Department of Chemical Engineering. 25 lectures of 2 hours, Wednesdays at 6 p.m., beginning October 5th. McConnell Engineering Building. Fee \$50.00.

This course offers advanced treatment, from a unified point of view, of a number of engineering operations which are analyzed by means of rate equations. Topics are chosen from the areas of heat transfer, chemical reaction rates, convective mass transfer, bulk transport rates, and diffusion.

- B45. ORE DRESSING.** Professor Talat Salman, Department of Mining Engineering. 10 lectures of 2 hours, Wednesdays at 6 p.m., beginning October 5th. McConnell Engineering Building. Fee \$20.00. *Prerequisite:* High School Matriculation, or equivalent.

This course is intended for those with a general knowledge of mining and minerals. *Syllabus:* Preparation of ores for treatment; mechanical methods of concentration, crushing; grinding, sizing; gravity concentration, agitation; leaching; thickening; filtration; beneficiation of coal. *Text:* Richards and Locke, *Textbook of Ore Dressing* (McGraw-Hill).

TRANSLATION

Courses B51 to B55 constitute a three-year series leading to a Diploma in Translation. They involve one two-hour period a week, and are open to all qualified students. A *Certificate* is given at the end of each of the three years to those who are successful in the examinations. To gain the *Diploma*, first class standing must be obtained in translation from French to English and from English to French in the examinations at the end of the Second and the Third years.

Students who successfully completed any of these courses last session may register by mail for the next course in the series. Students who were unsuccessful in a course last session may register by mail to repeat the course. A registration card may be obtained by writing or telephoning the Extension Office. Mailed registration cards, with cheque attached, should reach the Extension Office by October 1st.

EXTENSION COURSES

ADMISSION OF NEW STUDENTS

- (a) Students in possession of a degree (B.A., B.Sc., B.Com.) from a recognized college or university will be permitted to register for the First year on production of an *official* transcript of their degree. This may be mailed or brought to the Extension Office.
- (b) *All other students* wishing to enter First year MUST write the entrance examination in the Arts Building, McGill University, at 7 p.m., on Tuesday, September 13th.
- (c) All *new* students wishing to enter Second year MUST write the entrance examination on September 13th. Their standing in that examination will determine whether they can be admitted to Second year or should revert to First year.
- (d) An examination fee of \$1.00 must be paid at the door.
- (e) Within ten days of the date of the entrance examination, new students will be notified in writing of their admission to First or Second year. Those admitted may then register by mail. Registration cards, with cheques attached, should reach the Extension Office by October 8th.

FEES

The student fee, payable in full at registration, is the same for each course and is \$45.00. Members of the Montreal Translators' Society, on presentation of their 1960 membership cards, will be registered at a reduced fee of \$40.00. All Translation Course students are urged to join the Montreal Translators' Society, whose office is 900 St. Joseph Boulevard East, Montreal 24. The yearly fee of the Society is \$5.00 and its members enjoy special privileges. A cheque for \$5.00 should be sent *directly to the Society*.

FIRST AND SECOND YEARS: COMMERCIAL TRANSLATION

The purpose of these courses is to assist students in acquiring or perfecting ease of style and propriety of vocabulary in translating commercial material—correspondence, reports, advertising matter, simple sales contracts and the like—from English into French and *vice versa*.

The fields of terminology covered are broadly those of trade, finance and business administration. These courses are designed to emphasize the fact that commercial translation requires both accuracy and elegance, together with a proper understanding of the principles of correct drafting and composition. A course of reading is recommended to the students. It includes standard remedial manuals and works of reference on the use of language and the art of translation.

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- B51. ENGLISH-FRENCH AND FRENCH-ENGLISH COMMERCIAL TRANSLATION (1st year).** Mr. H. W. Mandefield and Mr. Gilbert H. King. 20 lectures of 2 hours, Tuesdays at 8:00 p.m., beginning October 11th. Arts Building.
- B52. ENGLISH-FRENCH AND FRENCH-ENGLISH COMMERCIAL TRANSLATION (1st year).** Mr. Roy A. Field and Mr. F. Dufau-Labeyrie. 20 lectures of 2 hours, Wednesdays at 8:00 p.m., beginning October 12th. Arts Building.
- B53. ENGLISH-FRENCH AND FRENCH-ENGLISH COMMERCIAL TRANSLATION (2nd year).** Mr. Gilbert H. King and Mr. H. W. Mandefield. Tuesdays at 8:00 p.m., beginning October 11th. Arts Building.
- B54. ENGLISH-FRENCH AND FRENCH-ENGLISH COMMERCIAL TRANSLATION (2nd year).** Mr. F. Dufau-Labeyrie and Mr. Roy A. Field. Wednesdays at 8:00 p.m., beginning October 12th. Arts Building.

THIRD YEAR: GENERAL TRANSLATION

This course, which is conducted alternately in French and in English, is intended for students with a fair background of linguistic knowledge. It provides an introduction to translation work of a literary value and all texts are selected from among the work of writers whose fields range from the descriptive or psychological novel to the critical essay and topical article of merit and distinction. Apart from the constant building up of indispensable vocabulary this course particularly stresses the stylistic aspect of English and French, and special attention is paid to synonyms, shades of meaning and the accurate rendering of the general tone of a page.

- B55. ENGLISH-FRENCH AND FRENCH-ENGLISH GENERAL TRANSLATION (3rd year).** Miss L. Mabel King. 20 lectures of 2 hours, Wednesdays at 8 p.m., beginning October 19th. Arts Building.

ENGLISH

- B56. ENGLISH COMPOSITION AND BUSINESS WRITING.** Professor Kathleen M. Vaughan. 25 lectures of 1½ hours, Tuesdays at 8 p.m., beginning October 4th. Arts Building. Fee \$38.00. *Prerequisite:* High School Matriculation. This course is strictly limited to those whose native tongue is English. Those who speak English fluently, but whose native tongue is not English, should register for *Course E80* (see page 3971).

This course is a study of the principles of effective English expression and their application in business letters, business reports, and other forms of communications and record. The course begins with 'refresher' lectures on grammar, sentence structure, punctuation, and paragraphing, and proceeds to a detailed consideration of the techniques used in writing

EXTENSION COURSES

utility, sales, credit and collection, claim and adjustment, and application letters. There is also a detailed consideration of the procedure to be followed in writing business reports and a description of the types of prose which contribute to the effectiveness of reports. Students are encouraged but not required to write assignments for individual criticism. *Texts:* Robert R. Aurner, *Effective Communication in Business* and *Effective Communication in Business Workbook* (South-Western Publishing Co.); John C. Hodges, *College Workbook, Form 1* (Harcourt, Brace).

FRENCH

BEGINNERS' FRENCH. Two classes of 25 1½-hour periods. Arts Building. Fee \$38.00 for each class. Both classes limited to 25.

This course has been especially planned for students who have never studied French before, and who desire to attain quickly a measure of fluency in that language. The approach will be entirely aural-oral, the course being planned to equip the student with a minimum of essential grammar. Attention will be paid to correct pronunciation from the start, and aural comprehension will be particularly stressed. There will be a short conversation at the end of every class. Written exercises will be given but will not be compulsory. *Text:* G. Mauger, *Cours de langue et de civilisation françaises à l'usage des étrangers* (Librairie Hachette, Paris).

B58. Professor Y. Champigneul, Department of Romance Languages. Mondays at 6:30 p.m., beginning October 3rd.

B59. Professor M.-T. Reverchon, Department of Romance Languages. Tuesdays at 6:30 p.m., beginning October 4th.

ELEMENTARY FRENCH. Two classes of 25 1½-hour periods. Arts Building. Fee \$38.00 for each class. Both classes limited to 25.

This course is an elementary one, devised for students who have studied some French previously but who, for lack of opportunity to use it, have forgotten most of it. French will be begun again from scratch, but the rate of progress will be faster than in *Beginners' French*, and, while the emphasis will remain on an aural-oral approach, attention will be paid to correct grammar. Students will be invited to devote some of their spare time to study, and written exercises will be set. *Text:* Douglas W. Alden, *Premier Manuel: Grammaire et civilisation françaises* (Appleton-Century-Crofts).

B60. Mr. G. D. Jackson, Department of Romance Languages. Wednesdays at 6:30 p.m., beginning October 5th.

B61. Professor T. Romer, Department of Romance Languages. Tuesdays at 8:15 p.m., beginning October 4th.

TECHNICAL COURSES

ELEMENTARY FRENCH CONVERSATION. Three classes of 25 1½-hour periods. Arts Building. Fee \$38.00. Classes limited to 25.

This course consists of intensive oral work with the language, with emphasis on pronunciation, fluency and correct grammar. Attention will be given to enlarging the students' vocabulary, with particular regard to their professional needs or interests. This is a very suitable course for students who have taken the written or reading approach to French and desire to bring to life the linguistic material previously acquired. *Students will receive individual attention.* Text: G. Mauger, *Cours de langue et de civilisation françaises à l'usage des étrangers* (Librairie Hachette).

B62. Professor A. Rigault, Department of Romance Languages. Wednesdays at 6:30 p.m., beginning October 5th.

B63. Professor T. Romer, Department of Romance Languages. Thursdays at 8 p.m., beginning October 6th.

B64. Professor Y. Champigneul, Department of Romance Languages. Mondays at 8 p.m., beginning October 3rd.

INTERMEDIATE FRENCH. Two classes of 25 1½-hour periods. Arts Building. Fee \$38.00 for each class. Both classes limited to 25.

This course is intended for students who have taken French in High School or who have recently taken an elementary French course. A grammar review will be undertaken and a certain amount of written work will be offered on the less familiar aspects of syntax; but most of the class work (which, it is hoped, will be conducted entirely in French) will be aimed at developing aural comprehension and increasing the students' active vocabulary on a wide range of topics. Texts: I. F. Fraser, *French Reviewed, A Review and Reference Grammar and Workbook* to accompany (Rinehart); O. F. Bond, ed., *Graded French Readers, Book VII: L'Anglais tel qu'on le parle* (Heath).

B65. Miss Nicole Deschamps, Department of Romance Languages. Tuesdays at 8:15 p.m., beginning October 4th.

B66. Mr. G. D. Jackson, Department of Romance Languages. Wednesdays at 8 p.m., beginning October 5th.

INTERMEDIATE FRENCH CONVERSATION. Two classes of 25 1½-hour periods. Arts Building. Fee \$38.00 for each class. Both classes limited to 25.

This course will be purely oral and conducted entirely in French. It is intended for students who have reached an average degree of aural comprehension but still experience difficulty in expressing themselves

EXTENSION COURSES

in French. The course will feature a review of every-day words and phrases used in real-life situations. *Students will receive individual attention.*
Text: Shields, *Parlons français* (Houghton Mifflin).

B67. Professor M.-T. Reverchon, Department of Romance Languages. Tuesdays at 8 p.m., beginning October 4th.

B68. Dr. Henri Jones, Department of Romance Languages. Wednesdays at 6 p.m., beginning October 5th.

B69. ADVANCED FRENCH CONVERSATION. Mme. S. Launay. 25 periods of 1½ hours, Mondays at 6:30 p.m., beginning October 3rd. Arts Building. Fee \$38.00. Class limited to 25.

This course is intended for students who feel the need for fluent conversational French in business or who desire to attain a really good command of the spoken language. It will take the form of debates and discussions on prepared topics and of review of current phrases as necessary. Each lecture will include pronunciation exercises adapted to class needs. The course will be conducted entirely in French and students will receive individual attention. *Texts:* Picard and Black, *Manuel de conversation française* (Heath); Albert Mann, *Conversational French* (Macmillan).

B70. PRACTICE OF SPOKEN FRENCH. Professor A. Rigault, Department of Romance Languages. 25 periods of 1½ hours, Mondays at 6:30 p.m., beginning October 3rd. Arts Building. Fee \$38.00. Class limited to 25.

This purely oral course (to be given in French) is meant for the students who passed the Intermediate Conversation level but are not fluent enough to take the Advanced Conversation. It has been planned to give an intensive training in the main elements of conversational French. Class work will aim at developing fluency through exercises in aural comprehension, and will include the study of French speech habits and discussions on prepared topics. *Texts:* P. Delattre, *An Introduction to French Speech Habits* (Holt); J. Landry, *Graded French Word and Idiom Book* (Heath).

GERMAN

CERTIFICATE OF PROFICIENCY IN GERMAN. A Certificate of Proficiency in German will be given upon the successful completion of the graded courses described below to those students who wish to undergo special examinations in oral and written German. Other students may pass an examination for a simple Pass Certificate. A student who has studied German at another university may be granted credit and be permitted to enter either the Second or the Third year of the course.

TECHNICAL COURSES

BEGINNERS' GERMAN (1st year). Two classes of 25 1½-hour periods. Arts Building. Fee \$38.00 for each class. Both classes limited to 25.

This course offers a brief survey of German grammar and an introduction to the spoken and written language through the medium of an easy text. Oral German is stressed from the beginning and the pupil is encouraged to use the language as much as possible. *Text:* H. A. Guerber, *Märchen und Erzählungen* (Heath).

B71. Professor Bertha Meyer, Department of German. Tuesdays at 6:30 p.m., beginning October 4th.

B72. Mrs. Gertrud Mladenovic. Wednesdays at 6:30 p.m., beginning October 5th.

B73. GERMAN INTERMEDIATE (2nd year). Mrs. Gertrud Mladenovic. 25 lectures of 1½ hours, Thursdays at 6:30 p.m., beginning October 6th. Arts Building. Fee \$38.00. Class limited.

This course offers the student the opportunity to continue the practice of spoken and written German and to attain some degree of fluency and correctness in the language. Such discussion of grammar and syntax as are found necessary will be given. Conversation will be encouraged. *Texts:* Stroebe, *Vom Alltag zur Literatur* (Holt); Fabrizio, *Wer zuletzt lacht* . . . (Appleton-Century-Crofts).

B74 and B75. GERMAN ADVANCED (3rd and 4th years). Lecturer to be announced. 25 lectures of 1½ hours, Mondays at 6:30 p.m., beginning October 3rd. Arts Building. Fee \$38.00. Class limited.

This course will be conducted in German as far as possible. Through the medium of modern texts the idiom of colloquial German will be practised and special attention will be paid to developing fluent conversation and correctness in writing and translating original German and English texts. Students who want to obtain a Certificate of Proficiency are required to study additional texts. *Texts:* Loran and Phelps, *Aus unserer Zeit* (Norton); Stroebe, *Vom Alltag zur Literatur* (Holt).

ITALIAN

B76. ITALIAN ELEMENTARY: LANGUAGE AND CONVERSATION. Mrs. Anne Noad. 25 lectures of 1½ hours, Thursdays at 6:30 p.m., beginning October 6th. Arts Building. Fee \$38.00. Class limited.

This course is planned for beginners who have had no previous experience with the language. It aims at building a practical vocabulary for everyday use and, to that effect, uses the oral-aural approach almost exclusively for the first term. In conversational practice the emphasis

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will be laid on fluency rather than on grammatical correctness, grammar being presented in its functional form and limited to basic syntax. In the second term, the emphasis will be on commercial vocabulary. *Texts*: Cioffari, *Beginning Italian Grammar* (Heath); Cioffari and Van Horne, *Lecture Varie* (Heath); Kany and Speroni, *Elementary Italian Conversation* (Heath); Cuthbertson, *Italian Verb Wheel* (Heath).

878. "SO YOU'RE GOING TO ITALY!" Mrs. Anne Noad. 10 lectures of 1½ hours, Mondays at 8 p.m., beginning January 23rd. Fee \$15.00.

This course should appeal to those who are planning a trip to Italy for reasons of business or pleasure. Informal talks on points of interest and the aspects of everyday life and travel will be given in English, supplemented by instruction in conversational Italian designed to meet the requirements of the traveller. Every effort will be made to develop the aural comprehension and the vocabulary of the student, and thus help prepare him for a more enjoyable trip abroad. *Text*: Kany and Speroni, *Elementary Italian Conversation* (Heath).

RUSSIAN

- RUSSIAN ELEMENTARY (1st year). Mr. J. N. Westwood, Department of German and Russian. Two classes of 25 1½-hour periods. Arts Building. Fee \$38.00 for each class. Both classes limited to 25.

This course will begin with the general characteristics of the Russian language, the alphabet and phonetic values of separate letters; accent; basic rules of grammar. There will be reading, oral and written exercises, and translation into English and Russian of selected articles, accompanied by a gradual introduction to Russian culture and civilization. *Text*: G. A. Znamensky, *Conversational Russian* (Ginn).

879. Mondays at 6 p.m., beginning October 3rd.

880. Mondays at 8 p.m., beginning October 3rd.

881. RUSSIAN INTERMEDIATE (2nd year). Professor V. N. Litwinowicz, Department of German and Russian. 25 lectures of 1½ hours, Tuesdays at 6:30 p.m., beginning October 4th. Arts Building. Fee \$38.00. Class limited to 25.

The course includes a rapid review and completion of twenty-five lessons in G. A. Znamensky's *Conversational Russian*; reading and translation of short stories from Chekhov; simple narratives of Russian life and customs; grammar and oral exercises. *Texts*: G. A. Znamensky, *Conversational Russian* (Ginn); Birkett and Struve, *Chekhov Selections* (Oxford).

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- B82. RUSSIAN ADVANCED.** Prof. V. N. Litwinowicz, Department of German and Russian. 25 lectures of 1½ hours, Thursdays at 6:30 p.m., beginning October 6th. Arts Building. Fee \$38.00. Class limited to 25.

The course will include readings, translation, conversation and grammar, and will be conducted in Russian as far as possible. *Texts:* Duddington and Gorodetzky, *Tolstoy's Selections* (Oxford); A. Semeonoff, *A New Russian Grammar* (Dent.)

SPANISH

- A CERTIFICATE OF PROFICIENCY IN SPANISH** will be granted on the successful completion of the graduated courses, extending over four years, described below. A mark of 75 percent or higher must be obtained in the Fourth year examination in order to gain the Certificate of Proficiency. Those who have studied Spanish at some other institution may be granted credit for one or more years depending on the progress they have made.

- SPANISH ELEMENTARY (1st year):** Conversation and Composition. Two classes of 25 1½-hour periods. Arts Building. Fee \$38.00 for each class. Both classes limited to 25.

A beginner's course designed to teach students to read, write and speak Spanish, and to become conversant with the main grammatical principles of the language. Ample practice will be given in written work by means of translation and dictation. Students will be given considerable practice in oral work, particular importance being attached to self-expression. *Texts:* Fernandez and Hayes, *Beginning Spanish* (Houghton, Mifflin); Rogers and Centeno, *Patterns of Spanish Conversation* (Houghton, Mifflin); Timms, *Poco a poco* (Univ. of London Press).

- B83.** Professor Robina E. Henry, Department of Romance Languages. Thursdays at 6:30 p.m., beginning October 6th.
- B84.** Professor Monica Harvey, Department of Romance Languages. Thursdays at 8 p.m., beginning October 6th.
- B85. SPANISH ELEMENTARY (1st year):** Conversation and Composition. Professor Gaston F. Stegen, Department of Romance Languages. 25 periods of 1½ hours, Tuesdays at 6:30 p.m., beginning October 4th. Arts Building. Fee \$38.00. Class limited to 25.

A beginner's course which is designed to make the student conversant with the main grammatical principles, pronunciation and everyday vocabulary of the Spanish language. Practice is given in reading, writing and conversation, particular emphasis being placed on oral work. In the second half of the course, classes are conducted as far as possible in Spanish. *Texts:* D. D. Walsh, *A Brief Introduction to Spanish* (Norton);

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W. W. Timms, *Poco a Poco*, and *A First Spanish Reader for Adults* (both Univ. of London Press).

Applicants must indicate clearly, when registering, which of the three elementary classes they wish to take.

- B86. SPANISH INTERMEDIATE (2nd year):** Conversation and Composition. Professor Gaston F. Stegen, Department of Romance Languages. 25 lectures of 1½ hours, Tuesdays at 8:15 p.m., beginning October 4th. Arts Building. Fee \$38.00. *Class limited to 25 students. Prerequisite:* at least one year's study of the Spanish language.

This course presents a rapid and effective method of study for students of Spanish who have mastered the main elements of grammar and pronunciation. Considerable written practice is given in grammar and syntax by means of translations and compositions. Particular importance is attached to oral work, and the course is conducted in Spanish. As an introduction to the study of Spanish literature, the course includes the reading and discussion of a novel. *Texts:* Tarr and Centeno, *A Graded Spanish Review Grammar and Composition* (Appleton-Century-Crofts); José Lopez Rubio, *La otra orilla* (Appleton-Century-Crofts).

- B87 and B88. SPANISH ADVANCED (3rd year) and SPANISH FINAL (4th year).** Conversation, Composition and Literature. Professor L. B. Harrop, Department of Romance Languages. 25 lectures of 1½ hours, Thursdays at 8 p.m., beginning October 6th. Arts Building. Fee \$38.00. *Class limited to 25 students. Prerequisite:* two or three years of Spanish studies or the equivalent.

This combined Third and Fourth year course includes advanced composition, conversation, pronunciation and intonation drills, the reading of novels, plays and stories, a brief account of Spanish civilization, and modern Spanish idiom. *Each year a different aspect or period of literature will be studied.* In 1960-61, the special study will be Twentieth Century Spanish Drama. Those who are in their Fourth (or Final) year of Certificate of Proficiency studies will do additional work as indicated below. *Texts:* Levy, *Present-Day Spanish* (Dryden); Tarr and Centeno, *A Spanish Review Grammar* (Crofts); Harrop, *Spanish Graded Comprehension Pieces; Notes on Spanish Pronunciation*; Buero Vallejo, *En la ardiente oscuridad* (Alfil); García Lorca, *Bodas de sangre* (Contemporánea); Benavente, *Los intereses creados* (Austral); Benavente, *Rosas de otoño* (Austral). Additional text for Fourth year: *An Omnibus of Modern Spanish Prose* (Odyssey).

- B89. SPANISH COMMERCIAL CORRESPONDENCE AND ADVANCED CONVERSATION.** Dr. Enrique Ruiz-Fornells, Department of Romance Languages. 25 lectures of 1½ hours, Thursdays at 6:30 p.m., beginning October 6th. McConnell Engineering Building. Fee \$38.00.

This is an advanced course, taught in Spanish of commercial practice (written and oral) for those who have assimilated the grammatical structure of the language. *No grammar as such will be taught*, but the pupils' errors will be corrected. Written work will be handed in, and the exercises corrected and discussed. Attention will also be paid to correct pronunciation and intonation, and to the acquisition of a good vocabulary and conversational style. Some of the lessons in conversation will be based on a collection of modern Spanish American short stories. This course may be taken in addition to the final years of the Certificate of Proficiency. *Texts*: Angel, *Spanish Commercial Correspondence* (Latin-American Institute Press); Eckersley & Kaufmann, *English and American Business Letters* (Longmans); Méras & Roth, *Pequeno Vocabulario* (Harrap); Frias-Sucre Giraud, *Diccionario Comercial* (Juventud); Anderson-Imbert & Kiddle, *Veinte Cuentos Hispanoamericanos del Siglo XX* (Appleton).

- B95. THE INDUSTRIAL AND MEDICAL USES OF RADIOACTIVE ISOTOPES.** Professor L. Yaffe, Dr. L. G. Stephens-Newsham and Dr. R. M. Cunningham. 20 lectures of 2 hours, Wednesdays at 6 p.m., beginning October 5th. McConnell Engineering Building. Fee \$40.00. *Prerequisites*: a B.Sc. degree with at least one year of Physics and of Mathematics, or an M.D. degree.

The basic chemical and physical information needed for an understanding of the phenomenon of radioactivity will be given. This will be followed by discussions of the various methods of separation, measurement, and detection of radioactive isotopes. Precautions in the handling of radioactive materials, health tolerances, design of laboratories for use of radioactive isotopes will be discussed. Examples will be given of the use of radioactive isotopes in industry dealing with the application in research, development and process control.

Principles of use of radioactive isotopes in biological investigation and in medical diagnosis and therapy will be covered. These will include dosage calculations and radio-biology from the viewpoint of therapy or health hazards, clinical diagnostic use of isotopes, such as radio-iodine in thyroid studies, body fluid volume measurements, metabolic investigations and techniques of tumour localization. Examples of applications of radioactive tracers to biological research problems will be given.

- B96. BIOMEDICAL INSTRUMENTATION.** Dr. John F. Davis, Department of Psychiatry, and others. 10 lectures of 2 hours, Wednesdays at 8 p.m., beginning October 5th. McConnell Engineering Building. Fee \$20.00.

This is a beginner's course in the fundamentals of electronics and instrumentation as these problems are encountered by students, both graduate and post-doctoral, in the biological sciences. So many research and observation techniques now make use of cathode-ray oscilloscopes,

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transducers, biological amplifiers, integrators, timers, polygraphs, etc. that the physiological worker needs more than a casual acquaintance with the principles involved in these systems. This affords the post-graduate student, or young researcher in biology or medicine, an opportunity to brush up on his basic mathematics, electricity and physics and the applications of these in a modern biomedical research laboratory. Demonstrations will be arranged to illustrate some of the problems.

- B97. SEMINAR FOR CLINICAL INSTRUCTORS.** Professor Helen Gemeroy, School for Graduate Nurses. 10 lectures of 1½ hours, Mondays at 6:30 p.m., beginning October 3rd. Arts Building. Fee \$15.00. Class limited.

An advanced course for nurse instructors actively engaged in clinical teaching. Seminars will centre upon appropriate nursing action in the context of the total situation and upon the use of the supervisory process in clinical teaching. Enrolment is limited to permit free discussion.

- B98. WARD MANAGEMENT AND SUPERVISION.** Professor Elizabeth Logan, School for Graduate Nurses. 20 lectures of 2 hours, Wednesdays at 6:30 p.m., beginning October 5th. Arts Building. Fee \$40.00.

Syllabus: A study of administrative planning for the hospital ward as the unit of hospital administration, plans for patient care, controlling the environment, supplies and equipment, personnel, ward teaching as part of the administrative plan, the function of the ward in the educational programme of the student nurse; the principles of supervision applied to nursing education and nursing service in establishing a supervisory programme. *Text:* Jean Barrett, *Ward Management and Teaching*, 2nd edition, 1954 (Appleton-Century-Crofts).

SECTION C COURSES IN ACCOUNTANCY

(IN COOPERATION WITH THE SCHOOL OF COMMERCE)

In cooperation with the School of Commerce, the Extension Department offers an evening course program in Accountancy and allied subjects to meet the needs of those interested in such training. This program provides the curricular requirements for Commerce graduates proceeding to the Licentiate in Accountancy; for students of the Institute of Chartered Accountants of the Province of Quebec proceeding to the C.A. diploma; for students proceeding to the diploma of the Society of Industrial and Cost Accountants; for students of the Chartered Institute of Secretaries; and for students of the General Accountants' Association.

Students must plan their courses in accordance with the requirements of the diploma for which they are working. No student may take more than six class hours per week, four being generally preferable.

ADMISSION

Candidates for the C.A. diploma (see page 3945) must have at least junior matriculation standing and are required to submit their High School certificate to the Registrar of the University for evaluation prior to enrolment for the courses. A form obtainable from the Institute of Chartered Accountants must accompany this submission, together with cheque for \$2.00 made out to McGill University. Do *not* send your certificate to the Extension Office. The requirements for admission to other diploma courses will be found on pages 3946, 3947.

Students without training or experience in accounting and auditing will be required to follow the syllabus of courses in the order shown in Table I. The examinations in the courses constituting each year must be passed (the pass mark is 60%) before proceeding to the courses of the succeeding year.

Students with previous training or experience in accounting and auditing may be permitted to register at an advanced level. Application for admission to advanced standing must be made in writing to Professor K. F. Byrd, Purvis Hall, McGill University. Evidence to substantiate one's claims must accompany this letter.

ATTENDANCE

Regular attendance at lectures is required. A student who has been absent through illness must present a medical certificate at the next lecture he attends. If he has been sent out of town on business, a letter from his employer is required, for first-term absences, not later than the first lecture after Christmas, and for second-term absences by the last lecture of the academic year. The signature of an authoritative individual is required, not merely the firm name, and the letter must be handed to the lecturer or demonstrator; it must not be sent to the Extension Department. Students whose unexcused absences exceed one-eighth of the lectures will not be permitted to write the examinations.

REGISTRATION

Registration and payment of fees *by mail* begins on Thursday, September 1st, 1960, and students are urged to register early by this means. On Monday, September 19th, and Wednesday, September 21st, Professor Kenneth F. Byrd will be available in the Arts Building from 6 to 9 p.m. for consideration of special cases requiring exemptions, examination of certificates, etc. Registration of special cases will be deferred until these dates. Prospective students arriving in Canada after September 21st should write immediately to Professor Byrd.

EXTENSION COURSES

Candidates for the R.I.A. Two evenings have been set aside, Monday, September 12th, and Monday, September 19th, from 5:30 to 8:30 p.m., for interview and registration of students wishing to proceed to the R.I.A. Diploma. *ALL R.I.A. students must register on one or other of these evenings.*

On these evenings, representatives from the Educational Committee of the Society of Industrial and Cost Accountants of Quebec and representatives from the McGill Extension Department will be present to advise and register students and receive course fees. Candidates for the R.I.A. will be given the opportunity of becoming Student Members of the S.I.C.A. and of subscribing to the Society Journal. In addition to course fees, the student will require approximately \$25.00 for books, lesson notes and student membership in the Society.

Day Registration in person will be on the fourth floor, Dawson Hall from 9 a.m. to 2:30 p.m., Tuesday, September 6th, to Tuesday, October 11th, inclusive.

Evening Registration in person will be in the Registrar's Office on the ground floor, Dawson Hall, from 6 to 8.30 p.m., on Monday and Wednesday from September 12th to October 5th.

Late Registration Fee: A late fee of \$5.00 for each course will be charged on all registrations after October 12th. Registration will be closed for all courses on October 31st.

TEXTBOOKS

Information concerning textbooks and multigraphed notes required in the courses may be obtained from the lecturer at the first lecture.

PROBLEM ASSIGNMENTS AND CLASS TESTS IN ACCOUNTING AND AUDITING COURSES

There will be problem assignments each week which will be turned in by the student and recorded. Assignments mailed by students must be sent to the demonstrator's business or home address; *no mail will be forwarded by the Extension Office.* Each student's submitted answers to assignments will be taken into account, together with his marks in the class test and end-of-year examination (if any), in determining his marks on completion of each course. Supplemental examinations will be marked out of 100—credit gained on problems and class tests being no longer applicable.

SPRING EXAMINATIONS

An examination in each course will be held in the spring, except in the Accounting and Auditing courses C361, C362, C561 and C562 for C.A. students. The pass mark in each examination is 60 percent. Candidates

TABLE I. COURSES OF INSTRUCTION FOR THE EXAMINATIONS OF VARIOUS ORGANIZATIONS

	McGill University Licentiate in Accountancy (for B.Com. only)	Institute of Chartered Accountants of Quebec	Society of Industrial and Cost Accountants*	Chartered Institute of Secretaries	General Accountants' Association
	Year	Year	Year	Year	Year
C111 Mathematics of Finance.....	..	1	1	..	1
C141 General Economics.....	..	1	..	..	1
C151 Labour and Industrial Legislation.....	..	..	1	..	..
C161 Elements of Accounting.....	..	1	1	1	1
C221 Industrial Management.....	..	..	2	..	4
C231 Commercial Law.....	..	2	..	..	2
C251 Industrial Organization.....	..	2	..	..	2
C261 Intermediate Accounting, Part I.....	..	2	2	2	..
C351 Fundamentals of Cost Accounting.....	..	..	3	3	3
C361 Intermediate Accounting, Part II.....	..	3	3	3	3
C362 Intermediate Auditing.....	..	3	..	..	..
C451 Advanced Cost Accounting.....	..	..	4	..	..
C461 Final Accounting and Auditing, Part IA.....	1	4	..	..	4
C462 Final Accounting and Auditing, Part IB.....	1	4	..	..	4
C561 Final Accounting and Auditing, Part IIA.....	2	5	..	..	5
C562 Final Accounting and Auditing, Part IIB.....	2	5	..	..	5

Note: The years indicated are intended as a general guide and are not to be regarded as necessarily applicable in all circumstances.

*All students who joined the Society after July 1st, 1957, must follow this new curriculum. (See page 3946.)

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who fail to pass the examination in the spring will be permitted to write a supplemental examination in August. Candidates failing to pass the latter examination will be required to repeat the course in which they have failed and will not be permitted to register in the succeeding course.

There will be no spring or supplemental examination in Accounting and Auditing courses C361, C362, C561 and C562, in the case of C.A. students. These students will be admitted by the Institute of Chartered Accountants of Quebec to the Intermediate or Final C.A. examination, held in June, only where the University certifies that they have satisfactorily completed the work of the year. Such certificate will be given only where the student has a college record for the year of at least 60%, based on his weekly assignments and terminal tests. This college record will be very strictly kept and interpreted. Students who fail the Intermediate C.A. examination in June, but obtain at least 50% of the marks allotted in each of Accounting and Auditing, will be permitted to proceed to the fourth year courses, C461 and C462. Students who obtain less than 50% in either or both of Accounting and Auditing, at the Intermediate C.A. examination, will not be permitted to enter the C461 or C462 course but will be required to repeat the C361 and C362 course and obtain the University's report of successful completion before they may again write the Intermediate C.A. examination.

No. C.A. student may enter either the C561 or the C562 Accounting and Auditing courses until he has passed the Intermediate C.A. examination, unless he has been exempted by the Institute.

Examination results will be sent out by mail from the School of Commerce as soon as possible after each examination. *They cannot be obtained by telephoning.*

SUPPLEMENTAL EXAMINATIONS

Supplemental examinations will be held in late August for students who fail in any of the examinations in the spring. No student will be permitted to enter the courses in Intermediate Accounting, C261 and C361, and Intermediate Auditing, C362, without having passed all examinations in the accounting courses preceding, unless he has been specifically exempted therefrom.

All applications for re-examination must be made to the Director of the School of Commerce before August 15th, accompanied by a cheque for \$10.00 made out to McGill University, and must include a statement as to the year in which the classes were taken.

ACCOUNTANCY COURSES

DIPLOMA OF THE INSTITUTE OF CHARTERED ACCOUNTANTS OF QUEBEC

The Institute of Chartered Accountants of Quebec conducts its own qualifying examinations but requires that candidates must have previously passed the University examinations for the courses, as set out in Table I, with the exception of Accounting and Auditing courses C361, C362, C561 and C562. As a prerequisite to recognition of any evening courses for admission to its own examinations the Institute requires the student to register with it and for this purpose the student must have obtained a junior matriculation standing recognized by McGill University. To obtain such recognition the student must present his matriculation certificate to the University Registrar before enrolment for the courses, together with a form obtained from the Institute and cheque for \$2.00 made out to McGill University. See page 3941.

Details relative to registration, apprenticeship and other matters concerning the Institute may be obtained from

The Institute of Chartered Accountants of Quebec,
Chartered Accountants Building,
630 Lagauchetiere Street West,
Montreal.

C. D. Mellor, C.A., Executive Secretary.

The normal plan of studies for one who attempts to obtain a diploma requires five years, paralleling the five years of apprenticeship in the office of a practising chartered accountant.

Examinations

The Institute of Chartered Accountants of Quebec has two sets of qualifying examinations: Intermediate Accounting and Auditing, and Final Accounting and Auditing. Both sets of examinations are held annually in June. These examinations are conducted by the Institute under its own regulations. Applications to sit for these examinations must be made to the Secretary of the Institute, with proof that the necessary requirements have been met.

The Intermediate Accounting and Auditing examinations consist of four papers and are normally taken after three years of evening study.

Before sitting for these examinations, the candidate must have passed the following course examinations:

Elements of Accounting
Intermediate Accounting, Part I (C261)
Mathematics of Finance

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Commercial Law
Economics
Industrial Organization

Also he must be reported by the University as having satisfactorily completed the work of the year in Intermediate Accounting C361 and Intermediate Auditing C362 with a college record of at least 60% in each case.

In practice the Institute allows students who have written and failed in *one* only of the non-accounting courses to carry that course forward as a supplemental until after he has written his Intermediate C.A. examination for the first time. If he fails in that examination he is not then allowed to sit again until he has passed the supplemental examination in the course carried forward.

The Final Accounting and Auditing examinations consist of six papers, three in Accounting and three in Auditing, and are taken only after the course examinations in Accounting and Auditing C461 and C462 have been passed and the student has been reported by the University as having satisfactorily completed the work of the year in Final Accounting and Auditing C561 and C562 with a college record of at least 60% in each case.

DIPLOMA OF THE SOCIETY OF INDUSTRIAL AND COST ACCOUNTANTS

The Society of Industrial and Cost Accountants has three sets of qualifying examinations for its diploma, Registered Industrial Accountant (R.I.A.). The revised curriculum is as follows:

QUALIFYING COURSE

Business Mathematics ($\frac{1}{2}$ course, available by correspondence course, summer 1961)

PRIMARY

Accounting I
Industrial Legislation

INTERMEDIATE

Accounting II
Industrial Organization and Management

FINAL I

Accounting III ($\frac{1}{2}$)
Managerial Statistics ($\frac{1}{2}$)
Fundamentals of Cost Accounting

FINAL II

Advanced Cost Accounting
Report Writing ($\frac{1}{2}$)
Accounting IV
Thesis

ACCOUNTANCY COURSES

The new curriculum has gone into effect by stages. The requirements of the primary year were altered effective with the session 1957-58; the requirements of the intermediate year were altered effective the session 1958-59; and so on. Because this changeover is by stages, a few students may be slightly inconvenienced. The new courses of the final years, for example, will not be available immediately; consequently, students may have to alter the normal sequence of their courses or, in the rare instance, postpone a course until it becomes available. For the great majority of new students the changeover will coincide with their annual progress, and they will therefore automatically follow the new curriculum.

The student may prepare for the qualifying examinations by following the courses shown under this heading in Table I.

Particulars may be obtained from Professor D. R. Patton, Chairman of the Co-ordinating Educational Committee of the Society, WE. 3-7362.

OTHER ASSOCIATIONS

For information about the Chartered Institute of Secretaries, write or telephone the Honorary Secretary, P. T. R. Pugsley, Suite 14, The Linton, 1509 Sherbrooke Street West. Telephone WE. 3-7362.

The General Accountants' Association provides for two sets of qualifying examinations: (a) Intermediate and (b) Final, leading to its diploma. For further details, telephone the Secretary, James G. Finnie, C.G.A., 5336 Queen Mary Road, Montreal. Telephone HU. 9-3232.

COURSES IN ACCOUNTING, AUDITING AND RELATED SUBJECTS

All Accountancy students should consult notice board in Arts Building on the night of their first lecture in any course.

C111. MATHEMATICS OF FINANCE. Professors Herbert Tate and C. D. Solin, and Mr. A. D. Teitlebaum. 25 lectures of 2 hours each, Wednesdays at 6 p.m., beginning September 28th. Arts Building. Fee \$50.00.

Syllabus: Review of fundamentals, logarithms, arithmetic and geometric progressions. Percentage, simple and compound interest, averaging accounts, annuities certain, sinking funds, perpetuities and capitalization, bonds, amortization tables, instalment purchases, depreciation, simple business statistics. *Texts:* H. Tate, *Elementary Mathematical Analysis* (Pitman); *Mathematical Theory of Interest* (Pitman).

C141. GENERAL ECONOMICS. Messrs. H. C. Byleveld and L. Simcoe. 25 lectures of 2 hours each, one evening per week at 8 p.m., Mondays beginning September 26th or Wednesdays beginning September 28th. Arts Building. Fee \$50.00.

EXTENSION COURSES

A general introduction to the basic forces at work in our economic system. Among the topics discussed are gross national product and its components; business fluctuations; saving, investment and consumption; money and credit; the laws of supply and demand; international trade. *Text: Samuelson, Economics*, 4th edition (McGraw-Hill).

- C151. LABOUR AND INDUSTRIAL LEGISLATION. Mr. Marc C. Lapointe. 25 lectures of 2 hours each, Mondays at 6 p.m., beginning September 26th. Arts Building. Fee \$50.00.

Syllabus: General provisions of the civil law concerning legal relationship between employers and employees. Individual contracts between employers and employee. Contractual Relationship and Government Regulations: Collective labour agreements governed by the Professional Syndicates Act; agreements governed by the Labour Relations Act; individual contracts governed by the Minimum Wage Act; the Quebec Trade Disputes Act, the Public Services Employees Disputes Act, and the act respecting municipal and school corporations and their employees; labour unions and employers' associations—their certification, negotiation, conciliation, arbitration; the Provincial and Federal laws governing strikes and lock-outs. Ancillary Laws: Review of the so-called social laws. Each lecture will be followed by a practical application of the theory presented. *Text: Code of Labour and Industrial Laws*, 1959 edition (G. Francq).

- C161. ELEMENTS OF ACCOUNTING. Messrs. Kenneth C. Fincham, A. H. Howson, H. Mann and D. H. Ladd. 25 lectures of 2 hours each, one evening per week at 6 p.m., Mondays beginning September 26th or Tuesdays beginning September 27th. Arts Building. Fee \$50.00. *A pass in this course is prerequisite to Intermediate Accounting, Part I.*

Syllabus: Introduction to books of account and financial statements; theory of debit and credit; principles of double entry; the accounting cycle; recording of transactions in the general journal and general ledger; working papers; principle of control accounts; accounts receivable and accounts payable ledgers; use of special books of original entry including cash receipts and cash disbursements books; sales and purchase journals; the voucher system; adjusting, closing and reversing entries; provision for bad debts; payrolls; fixed asset and depreciation accounting; distinction between capital and revenue expenditure; accounting for petty cash; bank reconciliation statements; notes and bills of exchange; inventories; preparation of profit and loss statements, retained earnings statements and balance sheets for limited companies, individual proprietorships and partnerships. Consideration of accounting principles.

ACCOUNTANCY COURSES

Text: Finney and Miller, *Principles of Accounting—Introductory*, 5th edition, Canadian version (Prentice-Hall).

- C221. INDUSTRIAL MANAGEMENT. (R.I.A. students.) Mr. T. C. Arnold. 25 lectures of 2 hours each, Mondays at 8 p.m., beginning September 26th. Arts Building. Fee \$50.00.

This course is designed to provide an introduction to the broad aspects of corporate management. The course includes material on planning and financing of an enterprise, internal organization, methods and control in factory operations, industrial relations, marketing and sales administration, etc. *Text:* Bethel, Atwater, Smith and Stackman, *Principles of Industrial Organization and Management* (McGraw-Hill); Jamison, *Business Policy* (Prentice-Hall).

- C231. COMMERCIAL LAW. Mr. R. Stewart Willis. 25 lectures of 2 hours each, Thursdays at 8 p.m., beginning September 29th. Arts Building. Fee \$50.00.

Syllabus: Law of contracts, sale, agency, partnership, company law, negotiable instruments, and bankruptcy.

Texts: *Civil Code*; *British North America Act* (consolidation); *Canada Companies Act* and *Quebec Companies Act*; *Bankruptcy Act*.

- C251. INDUSTRIAL ORGANIZATION. (C.A. students.) Mr. P. M. Turner. 25 lectures of 2 hours, Tuesdays at 8 p.m., beginning September 27th. Arts Building. Fee \$50.00.

This course is designed to give the student an understanding of the complexities of managing an industrial enterprise and familiarize him with the development of sound policies as well as the judicial appraisal of their effectiveness. Through discussion of case material, problems arising in business administration will be illustrated. Areas dealt with will include principles of organization; differentiation of the various business activities according to their function, i.e., finance, sales, production personnel, etc.; major specific responsibilities of top management; evaluation of a company's situation; determination of objectives; policy making; controls, etc. *Texts:* Jamison, *Business Policy* (Prentice-Hall); Cruickshank and Davis, *Cases in Management* (Irwin), revised edition, 1958.

- C261. INTERMEDIATE ACCOUNTING (PART I). Messrs. G. D. Boyd, P. M. Brophey and M. A. Miller. 25 lectures of 2 hours each, one evening per week at 6 p.m.: Tuesdays beginning September 27th or Thursdays beginning September 29th. Arts Building. Fee \$50.00. *A pass in this course is prerequisite to Intermediate Accounting (Part II).*

EXTENSION COURSES

Syllabus: Revision of the work of the First year at a more advanced level. Partnerships: accounting for formation, distribution of profits; admission and withdrawal of partners including treatment of goodwill and bonus; partnership dissolution and liquidation; default of a partner; sale of a partnership to a limited company. Manufacturing accounts and statements; the elements of cost; periodic and perpetual inventories; transfer of goods to trading department at a price in excess of factory cost and adjustment of inventories. Single entry; books and accounts required; preparation of financial statements from single entry data; conversion to double entry.

Texts: Smalls, *Accounting Principles and Practice* (Ryerson); Finney and Miller, *Principles of Accounting, Intermediate*—Canadian edition (Prentice-Hall); *Companies Act (Canada)* (Queen's Printer).

C351. FUNDAMENTALS OF COST ACCOUNTING. Mr. G. Dale Rediker. 20 lectures of 2 hours each, Tuesdays at 8 p.m., beginning September 27th, Arts Building. Fee \$40.00.

Syllabus: Purposes of cost accounting; elements of cost; process cost systems; job cost systems; controlling accounts and the cost records; accounting for materials; material storage and consumption; perpetual inventories and stores control; valuation of materials; accounting for labor cost; wage systems; accounting for manufacturing expense; distribution of manufacturing expense to production; the cost to make and sell; sundry forms; monthly closing entries; preparations of operating and financial statements; cost reports. *Text:* Matz, Curry and Frank, *Cost Accounting* (South-Western).

C361. INTERMEDIATE ACCOUNTING (PART III). Professor A. R. Marshall and Mr. Donald W. Cook. 25 lectures of 2 hours each, Thursdays at 6 p.m., beginning September 29th, Arts Building. Fee \$50.00.

Syllabus: More advanced treatment of the work of the first two years. Consignment accounts; joint ventures; instalment sales; branch accounts. Financial statements: analysis and interpretation, methods of presentation, statements of source and application of funds. Reconstruction and reorganization of limited companies; mergers and amalgamations; holding companies and subsidiaries; minority interests. Consolidated statements.

Texts: Karrenbrock and Simons, *Advanced Accounting—Comprehensive Volume*, 2nd edition (South Western); Finney and Miller, *Principles of Accounting, Intermediate*, Canadian version, 5th edition (Prentice-Hall).

C362. INTERMEDIATE AUDITING. Professor A. R. Marshall and Mr. I. R. Sterling. 25 lectures of 2 hours each, Tuesdays at 6 p.m., beginning September 27th, Arts Building. Fee \$50.00.

ACCOUNTANCY COURSES

Syllabus: Section 1, Auditing Fundamentals—Nature and purpose of auditing; ethics and responsibilities of auditors; errors and fraud, internal audit and control, types and uses of evidence, sampling, audit techniques, programmes and working papers. *Section 2, Audit Procedures*—Original records, assets, liabilities, owner's equity, income and expense accounts. *Section 3, Auditors' Report*—Dominion Companies Act requirements; Canadian Institute of Chartered Accountants' research bulletins; statement presentation and analysis; reports; Canadian, British and American legal cases on auditors' duties. Note.—The student is recommended to refer also to bulletins of the accountancy profession in the United States and Great Britain. *Texts: Holmes, Basic Auditing Principles (Irwin); Smalls, Auditing (Pitman).*

C451. **ADVANCED COST ACCOUNTING.** Mr. Ronald Galloway. 20 lectures of 2 hours each, Mondays at 6 p.m., beginning September 26th. Arts Building. Fee \$40.00.

This course is designed for those having a fundamental knowledge of Cost Accounting principles and procedure. It covers advanced instructions in costing problems, records, and practices, and cost accounting in relation to inventories, budgetary control, and other devices of the various departments of a business, including the following: estimating cost systems; principles of standard costs; standard cost procedure; variances; cost ratios; budgetary control; static and variable budgets; differential cost analysis; special considerations and debatable methods; distribution and marketing costs; cost reports; graphic charts; machine accounting; current cost developments. *Text: Matz, Curry and Frank, Cost Accounting, 2nd edition (South-Western).*

FINAL ACCOUNTING AND AUDITING, PART I. (Part I should be passed before the student takes Part II.)

C461. **PART 1A.** Messrs. D. A. Spencer and Elliot Godel. *Licentiate students with the required B.Com. degree of McGill University only:* Mr. J. Richer. 25 lectures of 2 hours each, Tuesdays at 6 p.m., beginning September 27th. Macdonald Engineering Building. Fee \$50.00.

Auditing and Investigations. Further treatment of the work of the Third year. Investigations for fraud; certification of profits for prospectus purposes; investigations for sale of business by sole traders, partnerships, limited companies, with valuation of goodwill; valuation of shares; schemes of conversion to limited company; schemes of amalgamation (consolidation) and absorption (merger); pooling schemes; schemes of reorganization and reconstruction.

EXTENSION COURSES

Income Tax, Bankruptcy and Liquidation, Executorship Accounts

Income Tax: Principles and legal provisions (Dominion and Provincial) and their application to the problems of assessment of individuals, partnerships, and limited companies. Particular attention to the loss carry-back and carry-forward provisions, the treatment of capital cost allowances, the avoidance of double taxation of undistributed income, personal corporations. Payments of tax by individuals, partnerships, and limited companies. Objections and appeals: the income tax special court and higher courts.

Bankruptcy and Liquidation: Receiver's accounts; the marshalling of assets and liabilities; the statement of affairs; statement of realization and liquidation; the duties of the trustee.

Executorship Accounts: Accounting for capital and income in deceased estates; statements of charge and discharge; calculation of estate tax (Dominion).

Texts: Stettler, *Auditing Principles* (Prentice-Hall); J. Palen, *Report Writing for Accountants* (Prentice-Hall); Gilmour, *Income Tax Handbook* (DeBoo); *Income Tax Act (Consolidated)* (C.C.H.); *Bankruptcy Act, 1949* (Queen's Printer); *Estate Tax Act* (Queen's Printer); Belanger and Fields, *Canadian Income Tax Problems* (C.C.H.)—for Licentiates only.

C462. PART 1B. 25 lectures of 2 hours each, one evening per week at 6 p.m., Thursdays beginning September 29th. Messrs. N. P. LeBlanc and R. Brewerton, Arts Building. *Licentiate students with the required B.Com. degree of McGill University only:* Mr. W. J. Lawand, Macdonald Engineering Building. Fee \$50.00.

Advanced Accounting. Further treatment of the work of Third year. Foreign branch accounts. Preparation of consolidated accounts of Holding and Subsidiary Companies, including sub-subsidiaries. More advanced treatment of amalgamations (consolidations) and absorptions (mergers), including inter-company holdings; accounting for capital reorganization and reconstruction. Advanced accounting theory in general.

Cost Accounting. Definition of cost accounting, its aims and objects, elements of cost accounting for the purchase, storage and issue of materials; accounting for labour; schemes of remuneration of labour including incentive schemes, co-partnership and profit-sharing; accounting for overheads, with methods of apportionment to departments, and production; double entry cost accounting; job costs; process costs; estimating cost systems; standard costs and accounting for variances; closing the accounts at balance sheet date, preparation of operating statements.

MANAGEMENT AND ADMINISTRATION COURSES

Budgetary Control. Preparation of the budget including flexible budgets.

Texts: Karrenbrock and Simons, *Advanced Accounting*, Comprehensive Volume, 2nd edition (South-Western); Matz, Curry and Frank, *Cost Accounting*, 2nd edition (South-Western); and, for Licentiate students only, Finney and Miller, *Principles of Accounting—Advanced*, 4th edition, (Prentice-Hall).

FINAL ACCOUNTING AND AUDITING, PART II.

C561. PART IIA. Professor Kenneth F. Byrd. 25 lectures of 2 hours each. Thursdays at 6 p.m., beginning September 29th. McConnell Engineering Building. Fee \$50.00.

Advanced accounting problems, including special reference to insurance companies, municipalities, stockbrokers, banks, and investment trusts. General revision and integration of the work of all years, including consolidated accounts and cost accounting.

Texts: Paton, *Corporation Accounts and Statements* (Macmillan).

C562. PART IIB. Messrs. F. C. Lazier and J. G. G. Whalen. 25 lectures of 2 hours each, Tuesdays at 6 p.m., beginning September 27th. Arts Building. Fee \$50.00.

More advanced treatment of the criticism of financial statements, reports and report writing, and general investigations; the drafting of schemes of amalgamation and merger, of conversion from partnership to limited company, and of capital reorganization; valuation of shares and goodwill. Revision and more advanced treatment of federal income and estate taxes.

Texts: Gilmour, *Income Tax Handbook* (DeBoo); *Income Tax Act Consolidated* (C.C.H.); *Estate Tax Act* (Queen's Printer).

SECTION D

MANAGEMENT AND BUSINESS ADMINISTRATION

(IN COOPERATION WITH THE SCHOOL OF COMMERCE)

INTRODUCTION. Two groups of courses are offered in this section. The first group (A) is available to university graduates only and leads to a Diploma in Management and Business Administration. Individual courses may be taken by any graduate interested. The second group of courses (B) is available, without restriction, to everybody.

EXTENSION COURSES

(A) CREDIT COURSES LEADING TO THE DIPLOMA

While all of the courses in this series are open to any graduate interested, a candidate for the diploma must complete a special application form obtainable from the Extension office and submit it when registering. Further, each diploma candidate must submit an official transcript of his undergraduate record before completion of his first year's work. No candidate for the diploma will be permitted to register for more than three courses a year, and students are advised to take not more than two.

REQUIREMENTS FOR THE DIPLOMA

- (1) Candidates must have a B.A., B.Com., B.Eng., B.Sc., B.C.L. or equivalent degree.
- (2) All candidates *must* complete nine courses with a mark of not less than 60 percent in any course. Six of these courses must be completed from the required list and three from the elective list.
- (3) Exemptions from *required* courses will be considered for equivalent work already completed at McGill or elsewhere. In making application for exemptions the student must submit, in addition to the transcript of his academic record, a certified description of the content of the course taken elsewhere which he regards as equivalent. No credit will be granted for courses already taken at McGill or elsewhere.
- (4) Elective courses may not be taken for credit until all courses prerequisite to these electives have been completed.

EXAMINATION REGULATIONS. An examination will be held in the spring in each course in the diploma series. For course credit toward the diploma, the student must obtain at least 60 percent in each examination. Candidates for the diploma who fail to obtain 60 percent in the spring examination may write a supplemental examination in August. If the standing obtained in the supplemental examination is less than 60 percent, the student must repeat the course.

All applications for re-examination must be made in writing to the Director of University Extension before August 1st and be accompanied by a cheque for \$10 (for each examination) made out to McGill University.

CURRICULUM—DIPLOMA IN MANAGEMENT AND BUSINESS ADMINISTRATION

Required Courses:

- | | |
|--------|---|
| Year 1 | D1. Economic Analysis of Business |
| | D2. Principles of Accounting and Cost Determination |
| | D3. Administrative Practices |
| | D4. Mathematical Theory of Interest and Insurance* |

MANAGEMENT AND ADMINISTRATION COURSES

Year 2 D5. Money and Banking
 D6. Principles of Marketing
 D7. Industrial Production*
 One elective

Year 3 D8. Business Policy
 Two electives

Electives: D9. Corporation Finance
 D10. Investment Analysis
 D11. Introduction to Operations Research
 D12. Business Statistics
 D13. Sales and Marketing Management
 D14. Resources and Industries
 D15. Science in Economic Life
 D16. Operations Research II

*Must be taken by commerce graduates.

D1. ECONOMIC ANALYSIS OF BUSINESS. Professor Donald E. Armstrong, School of Commerce. 25 lectures of 2 hours, Tuesdays at 6 p.m., beginning October 4th. McConnell Engineering Building. Fee \$50.00.

Syllabus: The classification of markets. The determination by the firm of demand, costs, and production. The formulation of policies regarding such matters as price, advertising, inventories, and packaging.
Text: Coppock, *Economics of the Business Firm* (McGraw-Hill).

D2. PRINCIPLES OF ACCOUNTING AND COST DETERMINATION. Mr. E. H. Veinish, Veinish, Blauer & Co. 25 lectures of 2 hours, Wednesdays at 6 p.m., beginning October 5th. McConnell Engineering Building. Fee \$50.00.

Syllabus: The meaning of accounting and its essential functions and scope; the relation of accounting to other fields, with particular reference to economics; effect of changing dollar valuation on financial reports; analysis of financial statements. The financial picture of business enterprises as revealed by the accountant. Methods of financing capital requirements. Principles of cost accounting and its relation to general accounting; consideration of the elements of cost, materials, labour and overhead expenses, and their control; essential principles of standard costing and budgetary control. *Text:* Easton and Newton, *Accounting and the Analysis of Financial Data* (McGraw-Hill).

EXTENSION COURSES

ADMINISTRATIVE PRACTICES. Three classes of 25 2-hour lectures. Fee \$50.00 each class. *Applicants must indicate clearly, when registering, the class they wish to take.*

D3a. Mr. Alexander Winn, Aluminum Company of Canada. Mondays at 6 p.m., beginning October 3rd. McConnell Engineering Building.

D3b. Lecturer to be announced. Tuesdays at 8 p.m., beginning October 4th. McConnell Engineering Building.

D3c. Mr. Norman J. Keesal, Cartier Chemical Co. Ltd. Thursdays at 6 p.m., beginning October 6th. Macdonald Engineering Building.

The general purpose of Administrative Practices is to provide each student with an opportunity to develop, as far as he as an individual can, an attitude or way of thinking about human situations in business which is essential for effective administration. Classroom work will consist principally of analysis and discussion of numerous concrete cases which describe business situations, including the people involved, their actions, their relationships, and the conflicts that may stem from their differing values. In the course of class discussion students are presented with repeated occasions for enhancing their ability to perceive interrelationships of complex human, technical, and economic consequences of these actions. The student should progress toward a better understanding of the fact that the administrator lives and acts in a world of many values which are both persistent and changing, and often in conflict. The overall expectation is that the student will achieve growing competence in integrating differences among persons, groups, objectives, and ideals within an organization. *Text:* Glover and Hower, *The Administrator* (Irwin).

D4. **MATHEMATICAL THEORY OF INTEREST AND INSURANCE.** Dr. L. F. S. Ritcey, Canadian Mathematical Congress. 25 lectures of 2 hours, Thursdays at 8 p.m., beginning October 6th. McConnell Engineering Building. Fee \$50.00.

This course deals with the general principles and problems involved in mathematics as applied to finance and involves a study of the general nature of insurance.

Syllabus: Simple and compound interest, annuities, amortization, sinking funds, depreciation, capitalized cost, bonds, life annuities, life assurances, insurance reserves, underwriting of insurance, general principles of casualty insurance, social security including health insurance, unemployment insurance and pension planning. *Texts:* Larsen and Gaumitz, *Introduction to Life Contingencies*; Regal and Miller, *Insurance Principles and Practices* (Prentice-Hall); L. F. S. Ritcey, mimeographed notes on *Mathematics of Finance*.

MANAGEMENT AND ADMINISTRATION COURSES

- D5. **MONEY AND BANKING.** Dr. I. D. Pal, Department of Economics and Political Science. 25 lectures of 2 hours, Mondays at 8 p.m., beginning October 3rd. McConnell Engineering Building. Fee \$50.00.

Syllabus: Evolution of money and credit; banks and their operations; value of money; problems of economic stability; objectives of monetary policy. Canadian banking system and problems of Canadian monetary policy. Foreign exchanges; international payments; international monetary policy. *Texts:* George N. Halm, *Economics of Money and Banking* (Irwin); R. Craig McIver, *Canadian Monetary, Banking and Fiscal Development* (Macmillan).

- D6. **PRINCIPLES OF MARKETING.** Professor Peter C. Briant, School of Commerce. 25 lectures of 2 hours, Mondays at 6 p.m., beginning October 3rd. McConnell Engineering Building. Fee \$50.00.

This course will consist of three parts. In the first part, a statement of the objectives of marketing policy will be followed by a review of the theory which, when applied, will enable these objectives to be obtained. In part two, consideration will be given to the problems of application and measurement, including such topics as advertising, packaging, choice of outlet and the coordination of marketing activities. The final part of the course will relate marketing functions to the overall problem of management. *Text:* McNair, Brown, Leighton and English, *Problems in Marketing* (McGraw-Hill).

- D7. **INDUSTRIAL PRODUCTION.** Professor John C. Cherna, Department of Mechanical Engineering. 25 lectures of 2 hours, Thursdays at 6 p.m., beginning October 6th. McConnell Engineering Building. Fee \$50.00.

Syllabus: Purpose and function of industry; plant location and layout; product design, development and product simplification; product differentiation and standardization; production planning and control; essentials of work measurement and other aspects of human labour; brief introduction to statistical quality control. Each topic is to be discussed and illustrated by appropriate practical examples.

- D8. **BUSINESS POLICY.** Professor W. H. Pugsley, School of Commerce. 25 lectures of 2 hours, Thursdays at 8 p.m., beginning October 6th. McConnell Engineering Building. Fee \$50.00.

Business Policy covers the fields of policy-making and administration at the level where objectives are set for the Company as a whole, and departmental policies and activities are co-ordinated. Selected business case histories will be dealt with covering the top management viewpoint: problems, policies, plans and personalities; sizing up situations: formulating policies and planning programs of action; organizing administrative

EXTENSION COURSES

personnel and putting plans into action; control, day-to-day administrative problems, follow-up and reappraisal. Emphasis is placed on the over-all point of view to bring out how any section or department of a business will be managed to make the most effective contribution to the business as a whole. *Text:* Smith & Christensen, *Policy Formulation and Administration*, 3rd edition (Irwin).

- D9. **CORPORATION FINANCE.** Mr. James D. Kadlec, Towers, Perrin, Forster & Crosby (Canada) Ltd. 25 lectures of 2 hours, Thursdays at 6 p.m., beginning October 6th. McConnell Engineering Building. Fee \$50.00.

This course will include a detailed study of the field of Corporation Finance including the legal forms of business organization, formation and control of the Corporation, Corporation Stock, Corporation Bonds, factors determining the forms of capital structure, financial aspects of promotion, the organized security exchanges, and long and short term finance generally. Treatments for financial failure, including corporate merger, consolidation and reorganization, will also be studied. *Text:* Hunt, Williams and Donaldson, *Basic Business Finance* (Irwin).

- D10. **INVESTMENT ANALYSIS.** Professor Peter C. Briant, School of Commerce. 25 lectures of 2 hours, Wednesdays at 6 p.m., beginning October 5th. McConnell Engineering Building. Fee \$50.00.

This course deals with security analysis and investment techniques, covering the different types and classes of securities. The sources of information, methods of compiling statistics, and assessment of comparative values are discussed, together with portfolio objectives and differing philosophies of investment management. Broad economic trends, and international political climates affecting security values are analyzed. *Text:* Douglas A. Hayes, *Appraisal and Management of Securities* (Macmillan).

- D11. **INTRODUCTION TO OPERATIONS RESEARCH.** Professor George Cavadias, Department of Mathematics. 25 lectures of 2 hours, Mondays at 8 p.m., beginning October 3rd. McConnell Engineering Building. Fee \$50.00.

Syllabus: Matrices. Theory of games. Linear Programming (Simplex and transportation methods). Convex and dynamic programming. Applications to problems of competitive situations, allocation, production and inventory control. *Text:* M. Sasieni, A. Yaspan, L. Friedman, *Operations Research: Methods and Problems* (Wiley).

- D12. **BUSINESS STATISTICS.** Professor W. A. O'N. Waugh, Department of Mathematics. 25 lectures of 2 hours, Tuesdays at 8 p.m., beginning October 4th. McConnell Engineering Building. Fee \$50.00.

MANAGEMENT AND ADMINISTRATION COURSES

Syllabus: Descriptive and inductive statistics; sources; frequency distributions; the mean, median and mode; standard deviation and range; elements of probability; binomial and normal distributions; sampling technique and sampling distributions; estimation; hypothesis testing and the decision-making aspects of statistics; correlation and regression; index numbers; time series. The theory will be developed without the use of calculus but students will need to be familiar with the more elementary mathematical techniques, such as the solution of equations and the use of graphs. *Text:* Freund and Williams, *Modern Business Statistics* (Prentice-Hall).

- D13. SALES AND MARKETING MANAGEMENT. Mr. Charles R. Graham, Charles R. Graham Associates. 25 lectures of 2 hours, Mondays at 6 p.m., beginning October 3rd. McConnell Engineering Building. Fee \$50.00.

Syllabus: Application of the management approach to the fields of sales and marketing management. The subject matter is related to the managerial functions of planning, organizing, coordinating and controlling in terms of decision-making and policy formulation. Extensive use of case materials will be made to help create an atmosphere of business procedures in action while helping the individual to develop his own analytical ability, judgment and administrative prowess. *Text:* Still and Cundiff, *Sales Management, Decisions, Policies and Cases* (Prentice-Hall).

- D14. RESOURCES AND INDUSTRIES: A GEOGRAPHICAL APPROACH. Professor T. L. Hills, Department of Geography. 25 lectures of 2 hours, Thursdays at 6 p.m., beginning October 6th. McConnell Engineering Building. Fee \$50.00.

Syllabus: The influence of geographical factors on economic activities. A functional appraisal of resources both industrial and agricultural; resource creation and destruction; regional resource development and resource inventory. The development of the Canadian north; comparative examples from Greenland, Norway, Finland and the U.S.S.R. The problems of economic development in the 'underdeveloped' countries.

- D15. SCIENCE IN ECONOMIC LIFE. Professor R. V. V. Nicholls, Department of Chemistry. 25 lectures of 2 hours, Mondays at 6 p.m., beginning October 3rd. McConnell Engineering Building. Fee \$50.00.

This course is designed to give the student an understanding of the impact which science and technology have had upon economic life and of the manner in which they can be utilized to man's advantage. Some of the principal topics to be considered are: the special character of science, pure and applied; the general history of science and technology in Western Europe and North America; a detailed history of one applied

EXTENSION COURSES

science (chemistry) in Canada; the role of science in providing the necessities of life; the functions of research and development in commercial enterprises; patents; economic factors affecting the viability of manufacture; future prospects for novel materials and power sources.

- D16. **OPERATIONS RESEARCH II.** Professor George Cavadias, Department of Mathematics. 25 lectures of 2 hours, Mondays at 6 p.m., beginning October 3rd. McConnell Engineering Building. Fee \$50.00.

Syllabus: Probability and random variables. Utility and Decision Theory. Applications to statistical inventory control, replacement, sequencing, production scheduling and Queueing Theory. *Text:* M. Sasieni, A. Yaspan, L. Friedman, *Operations Research, Methods and Problems* (Wiley).

(B) COURSES FOR NON-GRADUATES

These courses are intended for non-graduates who are not eligible to attend courses in the Diploma series, but they may be taken by graduates.

- D20. Administrative Procedures
- D21. Personnel Administration
- D22. Elements of Marketing
- D23. Sales Organization
- D24. Retail Management
- D25. Canadian Income Tax
- D26. Machine Accounting
- D28. Organization and Management of Small Business
- D30. Industrial Relations

- D20. **ADMINISTRATIVE PROCEDURES.** Mr. J. Peter Kohl, Canadian International Paper Company. 25 lectures of 2 hours, Thursdays at 8 p.m., beginning October 6th. McConnell Engineering Building. Fee \$50.00. *Prerequisite:* High School Matriculation and/or supervisory position in industry, commerce or finance.

This course will be similar in content to Course D3 and the same text will be used.

- D21. **PERSONNEL ADMINISTRATION.** Mr. J. E. Girvin, Canadian Pratt and Whitney Aircraft Co. Ltd. 10 lectures of 2 hours, Mondays at 6 p.m., beginning January 23rd. Fee \$20.00.

This course surveys the functions and activities normally included in the Personnel Department, with extensive discussion of the translation of principle into policy and policy into practice, and consideration of the merits and demerits of various specific techniques. *Text:* Scott, Clothier et al, *Personnel Management* (McGraw-Hill).

MANAGEMENT AND ADMINISTRATION COURSES

- D22. **ELEMENTS OF MARKETING.** Mr. Reed Scowen, Perkins Paper Products Ltd. 25 lectures of 2 hours, Tuesdays at 8 p.m., beginning October 4th. McConnell Engineering Building. Fee \$50.00. *Prerequisite:* High School Matriculation.

This course will give the student a background for forming marketing policies and the skill to put these policies into effect in solving problems and taking advantage of new opportunities which constantly arise. The course will consist of lectures and discussion of case histories supplied by a number of Canadian firms. Whenever possible, individuals directly concerned with the cases will be present as guest speakers. *Topics:* Choosing methods of distribution; advertising; brand policy; sales promotion; market research; sales management; pricing; merchandising; packaging; the introduction of new products. *Text:* Leighton and Thain, *Canadian Problems in Marketing*, 1959 (McGraw-Hill).

- D23. **SALES ORGANIZATION.** Mr. Richard L. Edsall, Edsall Research Ltd. 25 lectures of 2 hours, Mondays at 6 p.m., beginning October 3rd. McConnell Engineering Building. Fee \$50.00.

Syllabus: An analytical study of the techniques and policies employed in the operation of a sales organization. The approach is from the viewpoint of marketing executives of an enterprise. Extensive use will be made of lectures and case materials in considering the problems of merchandising, promoting, planning, organizing and controlling the sales activities of companies. *Text:* Stanton and Buskirk, *Management of the Sales Force* (Irwin).

- D24. **RETAIL MANAGEMENT.** Messrs. Harry Sulfrin and M. S. Segall, Steinberg's Ltd. 25 lectures of 2 hours, Wednesdays at 8 p.m., beginning October 5th. McConnell Engineering Building. Fee \$50.00.

Syllabus: Opportunities in retailing; retailers in our economy; the retailer's customers; some retail policies; locating the store; the store building, fixtures and equipment; layout of the store; retail organization; buying to meet customers' wants; selecting merchandise resources and suitable merchandise; negotiations for merchandise; merchandise control; merchandise budget; pricing merchandise; retail sales promotion—advertising, display; customer services; retail personnel management; public relations; retail accounting; control of retail expenses; retail credit; retail insurance; co-ordination of the retail organization; review. *Texts:* Duncan and Phillips, *Retailing: Principles and Methods* (Irwin); Favill, *Selected Case Problems in Retailing* (Prentice-Hall).

- D25. **CANADIAN INCOME TAX.** Mr. Charles McLaughlin, Canadian Industries Limited. 20 lectures of 2 hours, Tuesdays at 6 p.m., beginning October 4th. McConnell Engineering Building. Fee \$40.00.

EXTENSION COURSES

Syllabus: The law and practice of Canadian Income Tax, Federal and Provincial. Computation of income with special consideration of deductions allowed and not allowed, capital cost allowances (depreciation) and business losses. Special problems of limited companies such as designated surplus, taxation of undistributed income, winding-up, reorganization, redemption of stock, stock dividends and amalgamation. Treatment of the income of estates and trusts. Taxation of non-residents. *Texts:* *Canadian Income Tax Act*; *Canadian Income Tax Regulations*; *Canadian Income Tax Problems* (CCH Canadian Ltd.).

- D26. **MACHINE ACCOUNTING.** Mr. T. S. Kennedy, Canadair Limited. 10 lectures of 2 hours, Thursdays at 6 p.m., beginning October 6th. McConnell Engineering Building. Fee \$20.00.

This course in Punched Card accounting is intended for students and others who have a sound knowledge of accounting principles. It is intended to show how problems attendant on a large volume of transactions or entries can be solved by the proper use of punch card machines and methods. Introductory sessions will be devoted to the background and development of punch card accounting and its advantages, as well as a discussion of the types of machines available. These will be followed by theoretical and case-history discussions on various accounting applications such as sales analysis, billing, inventory control, accounts receivable and payable, etc.

- D28. **ORGANIZATION AND MANAGEMENT OF A SMALL BUSINESS.** Mr. Bernard B. Lax, Merrill Lynch, Pierce, Fenner & Smith, Inc. 25 lectures of 2 hours, Wednesdays at 6 p.m., beginning October 5th. McConnell Engineering Building. Fee \$50.00.

This course involves a general study of the operation of small businesses, with particular attention to identifying business opportunities, and the development and organizational problems within the small firm. *Texts:* Shepherd, Musselman and Hughes, *Introduction to Modern Business*, latest edition (Prentice-Hall); Donham and Day, *New Enterprises and Small Business Management* (Irwin).

- D30. **INDUSTRIAL RELATIONS.** Mrs. Frances Bairstow, Department of Economics and Political Science. 25 lectures of 2 hours, Tuesdays at 6 p.m., beginning October 4th. McConnell Engineering Building. Fee \$50.00. Class limited.

This course will be concerned with the character of modern industry, the organization and functioning of management and of trade unions and the relationship between the two. Trade unions, federations and collective agreements will be analysed. The nature of industrial conflict, and the

role of the state in law and dispute-settlement machinery will be dealt with at length. Some films will be shown. *Texts*: Lloyd Reynolds, *Labor Economics and Labor Relations* (Prentice-Hall); H. D. Woods, *Patterns of Industrial Dispute Settlement* (Industrial Relations Centre, McGill University).

SECTION E

COMMUNITY SERVICE COURSES

RAPID READING

- E1. **RAPID READING.** Professor Margaret E. Nix, Department of Health and Social Medicine. 15 lectures of 1½ hours, Mondays and Thursdays at 6 p.m., beginning Thursday, October 13th. McConnell Engineering Building. Fee \$23.00. Class limited to 40.

This course is designed to increase one's speed in reading. Those whose reading rate is approximately 200 words a minute can, with practice, double this rate by the end of course. *Text*: Stroud, Ammons and Bamman, 2nd edition, *Improving Reading Ability* (Appleton-Century-Crofts).

- E2. **RAPID READING.** Identical with the above, but beginning January 23rd.
- E5. **PUBLIC SPEAKING.** Mrs. Shirley Say. 15 periods of 2 hours, Wednesdays at 8 p.m., beginning January 25th. Fee \$30.00.

Public speaking is ordinarily broken down into oratory, discussion, debate, conversation, and so on. This breakdown and the sets of rules which govern them will form the basis of teaching in this course. The proper use of words, stance and delivery will be carefully checked during the student's individual participation. This is a general course aimed at developing the powers of expression.

- E6. **SPEAKING IN PUBLIC.** Mr. Donald N. Byers, Q.C. 20 lectures of 1½ hours, Thursdays at 6:45 p.m., beginning October 6th. McConnell Engineering Building. Fee \$30.00. Class limited.

This course is primarily for people with no previous experience in public speaking and is designed to give the students as much practice in speaking as possible. Each lecture period will commence with a ten-minute address by the instructor, who will cover, amongst other things, the preparation and delivery of a speech, how to introduce and thank speakers, the duties of a chairman, and procedure at meetings. During the course, in addition to the prepared speeches that students will be asked to give, they will also introduce and thank speakers and take part in short debates.

EXTENSION COURSES

- E7. **SPEAKING IN PUBLIC.** Identical with the above. Time: Thursdays at 8:15 p.m., beginning October 6th.

Applicants must indicate clearly, when registering, the class they wish to take.

- E8. **HOW TO INVEST YOUR MONEY IN BONDS AND SHARES.** (In co-operation with the Education Committee of The Investment Dealers' Association of Canada.) Lecturers to be announced. 10 lectures of 1½ hours, Thursdays at 8 p.m., beginning January 26th. Fee \$20.00.

This course has been designed to give the uninitiated a working knowledge of investment principles and practices. The course is suitable either for the person who knows little or nothing about investment or for the person who is already an investor and wishes to learn more about the subject. The various types of securities available in Canada will be described and analyzed. The lecturers will also discuss such topics as the development of an investment program, the management of the investment portfolio and the interpretation and use of financial statements.

Lectures will be of 45 minutes duration and will be followed by a question period.

- E10. **A PRACTICAL COURSE IN PUBLIC RELATIONS.** (In cooperation with the Canadian Public Relations Society (Montreal) Inc.) Course director: Mr. Ernest J. Little, Texaco Canada Ltd. 10 lectures of 1½ hours, Thursdays at 6:30 p.m., beginning October 6th. Macdonald Engineering Building. Fee \$15.00. Class limited.

This course is aimed at broadening the experience and horizons of those already in the field of Public Relations and those proposing to enter it. A number of speakers experienced in public relations work will provide the basis for case history assignments. The conference-workshop technique will be employed in alternate sessions. A number of aspects of public relations will be considered: The definition and scope of public relations; public relations in industry, in the community; public relations as a career—opportunities and qualifications.

- E11. **MATERIAL HANDLING I (Elementary).** Mr. Donald B. Barry, Dominion Engineering Works Limited. 15 lectures of 2 hours, Mondays at 8 p.m., beginning October 3rd. McConnell Engineering Building. Fee \$30.00.

This course is designed to introduce the student to the fundamentals of material handling. *Syllabus:* Fundamentals, selection of equipment, industrial trucks and handling equipment, overhead handling, fork truck,

COMMUNITY SERVICE COURSES

conveyors, plant layout, analysis, reports and industrial solutions. Included will be discussions, films, reading assignments and problems. *Text:* Footlik and Carle, *Material Handling, Vols. I and II* (Lincoln Extension Institute (Canada) Ltd.).

- E12. MATERIAL HANDLING II (Equipment Selection and Warehousing). Mr. Harold G. Worley, Canadian Industries Limited. 15 lectures of 2 hours, Mondays at 8 p.m., beginning October 3rd. McConnell Engineering Building. Fee \$30.00.

This course compares the characteristics of different types of fork trucks, pallet stackers, pallets, expendable pallets, pallet racks, dock boards, wheel and roller conveyors, drag conveyors, hoists, cranes and so forth. This is followed by warehouse design and layout, stock location system, order picking and space and inventory control. Lectures include discussions, films, pass-outs, home problems and reading assignments. *Texts:* D. O. Haynes, *Material Handling Equipment* (Clinton Co.); *Storage and Material Handling* (U.S. Government).

- E13. MATERIAL HANDLING III (Industrial). Mr. Frank G. Bogert, Trans-Canada Air Lines. 15 lectures of 2 hours, Mondays at 8 p.m., beginning October 3rd. McConnell Engineering Building. Fee \$30.00.

This course is directed to the student who has completed Material Handling I, or who has a good basic knowledge of the subject. Particular emphasis will be placed on industrial material handling as opposed to warehousing. Topics to be dealt with are plant layout, materials handling analysis, selection and application of equipment, and a typical industrial solution. *Text:* James M. Apple, *Material Handling and Plant Layout; Material Handling, Vol. II* (Lincoln Extension Institute).

- E14. INDUSTRIAL INSTRUMENTATION. Lecturers from The Instrument Society of America, Montreal Section. 20 lectures of 2 hours, Tuesdays at 6 p.m., beginning October 4th. McConnell Engineering Building. Fee \$40.00.

This course is intended to cover the basic principles of automatic control mechanisms as used in the process industries. The principles of operation and some of the typical applications of instruments for measuring and controlling pressure, temperature, and fluid flow are described, using a minimum of mathematics and formulae.

- E15. PACKAGING MATERIALS AND PROCESSES. Mr. F. P. Stegen and other members of the Packaging Association of Canada. 20 lectures of 2 hours, Wednesdays at 6 p.m., beginning October 5th. McConnell Engineering Building. Fee \$45.00. *Prerequisite:* the introductory course or, in the opinion of the lecturer, equivalent experience in the packaging field.

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This course is the second part of the Packaging Materials and Processes course given in 1958-59 and 1959-60. In addition to discussion of problems arising out of the choice of design and materials to be used in developing a package, the lectures will also deal with market and package research and the inter-relationship of market conditions and package design.

- E16. BUILDING OR BUYING YOUR HOME.** (In cooperation with Central Mortgage and Housing Corporation.) Six lectures of 2 hours, Wednesdays at 8:15 p.m., beginning October 5th. Fee \$12.00. Registration card must be presented at all six lectures. McConnell Engineering Building.

This course is intended primarily for people who are planning to build a home, although much of its content will also be very helpful to those who wish to buy a house already built as it will make them more aware of things to look for and questions to ask. *Syllabus:* Methods of financing; legal aspects of acquisition and financing; selection of site and neighbourhood; elements of good design; architectural services available, selection of builder, specifications; elements of construction, materials, methods, finishes, landscaping. The lectures will be illustrated by slides.

A number of booklets, published by Central Mortgage and Housing Corporation and helpful to the prospective builder, will be supplied free to all who register for the course.

- E17. THE APPRAISAL OF REAL ESTATE.** (In cooperation with the Appraisal Institute of Canada and the Montreal Real Estate Board.) Lecturers to be announced. 20 lectures of 2 hours, Tuesdays at 8:15 p.m., beginning October 4th. McConnell Engineering Building. Fee \$40.00. *Prerequisite:* High School Matriculation.

This course has been designed to cover the fundamental theory of appraisal of real property and will be of interest to anyone concerned with real estate values and property management. It is intended to provide an understanding of the basic techniques employed in the estimation of value of real property. Students who complete this course may apply to the Appraisal Institute of Canada to write the corresponding qualifying examination of that body. *Text:* *The Appraisal of Real Estate* (The American Institute of Real Estate Appraisers).

- E18. SUPERVISORY TRAINING.** Mr. H. J. Tolan, Canadian National Railways. 20 lectures of 2 hours, Wednesdays at 6 p.m., beginning October 5th. McConnell Engineering Building. Fee \$40.00. *Prerequisite:* some supervisory experience.

This course covers the organizational and human relationships of first-line supervisors with their immediate subordinates and the company

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organization as a whole. The course will include such subjects as principles of organization, delegation, induction, training, interviewing, communication, grievances, and labour relations. Presentation is by means of lectures, film presentations followed by discussion, and the case history method. While the emphasis of the course is slanted towards the requirements of first-line supervisors in clerical groups, the principles will be generally applicable to supervision in a plant situation.

- E19. AN INTRODUCTION TO THE NURSERY SCHOOL CHILD. Mrs. Marion Kift, Salaberry Co-operative Nursery School. 10 lectures of 2 hours, Tuesdays at 8:15 p.m., beginning October 4th. McConnell Engineering Building. Fee \$20.00. *Prerequisite:* High School Matriculation. Class limited.

This course will include lectures and discussion on the following topics: The child at home; development—infancy to three years; development—four and five years; learning; philosophy of discipline; the nursery school program; physical set-up; special activities; circles; unhappy children. Some lectures will be illustrated by films. Students must be available for observation periods in recognized schools.

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The number of students in each class is limited to 25.

In addition to the required texts listed below for each course, the following reference books are recommended: *The Advanced Learner's Dictionary* (Oxford); Eckersley, *A Concise English Grammar* (Longmans). The titles of other reference books will be given to students by the instructor.

FIRST YEAR (Beginners)

Prerequisite: Literacy in student's own language. This First year (Beginners) course is designed for *real* beginners in English. Less will be attempted and the pace will be slower than in the regular First year course. Students who successfully complete this Beginners' course may, however, proceed to the Second year in the following session.

Two lectures per week, ending in December:

- E51. Miss Ann Robson. 20 lectures of 2 hours, Mondays and Thursdays at 6 p.m., beginning October 3rd. Arts Building. Fee \$40. *Texts:* Eckersley, *Essential English, Book I* (Longmans); Thornley, *Stories of Today and Eleven Short Stories* (P.B.E.E. series, Longmans); Harrop, *English Phonetic Word Book* and *English Pronunciation Exercises*.

One lecture per week, ending in April:

- E52. Mr. Alexander Harvey. 25 lectures of 1½ hours, Mondays at 8 p.m., beginning October 3rd. Arts Building. Fee \$38.00. *Texts:* Eckersley,

EXTENSION COURSES

Essential English, Book I (Longmans); Harrop, *English Phonetic Word Book and Easy Comprehension Pieces*.

FIRST YEAR

Prerequisite: Ability to understand and write simple English and to speak it with some fluency. This course begins at the elementary level but much more will be attempted than in the Beginners' course, the rate of learning will be faster, and the reading material of a higher level. Great stress will be laid on correct pronunciation and accentuation.

Two lectures per week, ending in December:

- E53. Mrs. Janet Betanzos. 20 lectures of 2 hours, Mondays and Thursdays at 6 p.m., beginning October 3rd. McConnell Engineering Building. Fee \$40.00. *Texts:* Eckersley, *Essential English, Books I and II* (Longmans); Harrop, *Easy Comprehension Pieces, English Pronunciation Exercises, and English Phonetic Word Book*.
- E54. Mrs. M. Brocklehurst. 20 lectures of 2 hours, Mondays and Thursdays at 6 p.m., beginning October 3rd. McConnell Engineering Building. Fee \$40.00. *Texts:* Eckersley, *Essential English, Book II* (Longmans); Harrop, *Easy Comprehension Pieces and Pronunciation Exercises*.
- E55. Mr. William Prouty. 20 lectures of 2 hours, Mondays and Thursdays at 8 p.m., beginning October 3rd. Arts Building. Fee \$40.00. *Texts:* Hayden, Pilgrim & Haggard, *Mastering American English* (Prentice-Hall); Harrop, *Easy Comprehension Pieces*; Robert J. Dixon, *Essential Idioms in English for the Foreign Born* (Regents); Thornley, *Eleven Short Stories* (Longmans).

One lecture per week, ending in April:

- E56. Miss M. E. Simpson. 25 lectures of 1½ hours, Wednesdays at 6:30 p.m., beginning October 5th. Arts Building. Fee \$38.00. *Texts:* Harrop, *Easy Comprehension Pieces and English Pronunciation Exercises*; Hayden, Pilgrim, and Haggard, *Mastering American English* (Prentice-Hall); Robert J. Dixon, *Essential Idioms in English for the Foreign Born* (Regents); Thornley, *Eleven Short Stories* (Longmans); *Six Men of Business* (Oxford).
- E57. Mr. W. T. Booth. 25 lectures of 1½ hours, Wednesdays at 6:30 p.m., beginning October 5th. Arts Building. Fee \$38.00. *Texts:* Harrop, *Easy Comprehension Pieces and English Pronunciation Exercises*; Hayden, Pilgrim, and Haggard, *Mastering American English* (Prentice-Hall); Robert J. Dixon, *Essential Idioms in English for the Foreign Born* (Regents); Thornley, *Eleven Short Stories* (Longmans); *Six Men of Business* (Oxford).

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- E58. Mr. A. J. Hartley. 25 lectures of 1½ hours, Tuesdays at 6:30 p.m., beginning October 4th. Arts Building. Fee \$38.00. *Texts*: Harrop, *Easy Comprehension Pieces* and *English Pronunciation Exercises*; Hayden Pilgrim, and Haggard, *Mastering American English* (Prentice-Hall); Robert J. Dixon, *Essential Idioms in English for the Foreign Born* (Regents); Thornley, *Eleven Short Stories* (Longmans); *Six Men of Business* (Oxford).
- E59. Miss Alison Groom. 25 lectures of 1½ hours, Mondays at 6:30 p.m., beginning October 3rd. Arts Building. Fee \$38.00. *Texts*: Eckersley, *Essential English, Books I and II* (Longmans); Harrop, *Pronunciation Exercises, Easy Comprehension Pieces*, and *English Phonetic Reader, Book I*; Nicholas Nickleby (Macmillan); *Lost Horizon* (Macmillan).

SECOND YEAR

Prerequisite: The First year course, or *real fluency* in spoken and written English. In the Second year the stress is on idiom and usage, with continued formal grammatical exercises. More difficult grades of reading material are studied.

Two lectures per week, ending in December:

- E60. Mr. J. G. Harris. 20 lectures of 2 hours, Mondays and Thursdays at 8 p.m., beginning October 3rd. McConnell Engineering Building. Fee \$40.00. *Texts*: Eckersley, *Essential English, Book III* (Longmans); Judd, *Exercises in English for Foreign Students* (Longmans); Paton, *Cry, The Beloved Country* (Longmans); Harrop, *Dictation, Comprehension and Précis Pieces*.
- E61. Mr. Gerald Vallillee. 20 lectures of 2 hours, Mondays and Thursdays at 6 p.m., beginning October 3rd. Arts Building. Fee \$40.00. *Texts*: Harrop, *Dictation, Comprehension and Précis Pieces*; Judd, *Exercises in English for Foreign Students* (Longmans).
- E62. Miss M. J. H. Deery. 20 lectures of 2 hours, Mondays and Thursdays at 8 p.m., beginning October 3rd. Arts Building. Fee \$40.00. *Texts*: Eckersley, *Essential English, Book III* (Longmans); Judd, *Exercises in English for Foreign Students* (Longmans); Harrop, *Dictation, Comprehension and Précis Pieces*; Paton, *Cry, The Beloved Country* (Longmans).
- E63. Mr. Chas. Mitchell. 20 lectures of 2 hours, Mondays and Thursdays at 6 p.m., beginning October 3rd. Arts Building. Fee \$40.00. *Texts*: Eckersley, *Essential English, Book III* (Longmans); Judd, *Exercises in English for Foreign Students* (Longmans); Harrop, *English Pronunciation Exercises*, and *Dictation, Comprehension and Précis Pieces*; Paton, *Cry, The Beloved Country* (Longmans).

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One lecture per week, ending in April:

- E64. Miss M. E. Simpson. 25 lectures of 1½ hours, Wednesdays at 8:15 p.m., beginning October 5th. Arts Building. Fee \$38.00. *Texts*: Eckersley, *Essential English, Book III* (Longmans); Judd, *Exercises in English for Foreign Students* (Longmans); Harrop, *English Pronunciation Exercises and Dictation, Comprehension and Précis Pieces*; Thornton Wilder, *The Bridge of San Luis Rey* (Pocket Books).
- E65. Mr. S. L. Pollard. 25 lectures of 1½ hours, Wednesdays at 6:30 p.m., beginning October 5th. Arts Building. Fee \$38.00. *Texts*: Eckersley, *Essential English, Book III* (Longmans); Judd, *Exercises in English for Foreign Students* (Longmans); Harrop, *English Pronunciation Exercises and Dictation, Comprehension and Précis Pieces*; Thornton Wilder, *The Bridge of San Luis Rey* (Pocket Books).
- E66. Mr. Albert Schachter. 25 lectures of 1½ hours, Tuesdays at 6 p.m., beginning October 4th. Arts Building. Fee \$38.00. *Texts*: Eckersley, *Essential English, Book III* (Longmans); Judd, *Exercises in English for Foreign Students* (Longmans); Harrop, *English Pronunciation Exercises and Dictation, Comprehension and Précis Pieces*; Thornton Wilder, *The Bridge of San Luis Rey* (Pocket Books).

THIRD YEAR

- E70. Professor L. B. Harrop. 25 lectures of 1½ hours, Thursdays at 6:30 p.m., beginning October 6th. Arts Building. Fee \$38.00. *Prerequisite*: The Second year course or equivalent. This course presupposes a fluent command of English. The stress will be on finer points of syntax, usage, idiom, pronunciation and intonation. The student will also be introduced to some modern English writers. *Texts*: Eckersley, *Essential English, Book IV*, and *Concise English Grammar* (Longmans); Judd, *Advanced Exercises in English* (Longmans); Harrop, *English Pronunciation Exercises; Dictation, Comprehension and Précis Pieces*; *An English Phonetic Reader, Book III*; Clarke, *Modern English Writers* (Longmans); A. Scotland, *A Mirror of the Times, Book I* (Odhams); *Modern Plays* (Everyman's Library). *Recommended reference books*: Jones, *Everyman's English Pronouncing Dictionary* (Dent); Palmer, *A Grammar of English Words* (Longmans); Worrall, *More English Idioms* (Longmans).
- E71. Dr. Mary Winspear. 25 lectures of 1½ hours, Wednesdays at 8 p.m., beginning October 5th. Arts Building. Fee \$38.00. *Prerequisite*: The Second year course, or English Composition for Business Writing. This course presupposes a fluent command of English. In the Third year the stress will be on the finer points of syntax, idiom, and intonation. Students will be encouraged to converse freely on topics of general interest and to submit written work for correction. *Texts*: Robert J. Dixon,

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Graded Exercises in English (Regents); Palmer and Blandford, *Everyday Exercises in Spoken English* (Heffer); C. Hardwick, *Words are Important* (Book Society of Canada); Harrop, *Dictation, Comprehension and Précis Pieces*; H. McLennan, *The Watch That Ends The Night* (McLelland and Stewart).

COURSES IN ENGLISH COMPOSITION FOR BUSINESS WRITING

These courses offer a detailed study of English grammar and syntax of business phrases and terminology, and of the composition of various types of business letters. Particular attention is given to the English words, idioms, and usage which experience has shown to present difficulty to those who learn English as a foreign language. *Correct pronunciation and conversational usage are stressed.* Students are expected to prepare written assignments, which will be corrected and returned. These courses are intended for those who have completed two or more years of study in the English language courses offered at McGill or for those who have had an equivalent amount of formal instruction in the English language.

INTRODUCTORY COURSE IN ENGLISH COMPOSITION FOR BUSINESS WRITING

Texts: Warner, *Business Letter Writing* (Pitman); Miller, *A Grammar of Modern English* (Longmans); Allen, *Living English Structure* (Longmans); Harrop, *Graded Comprehension Pieces*; *English Pronunciation Exercises*; Gowers, *The Complete Plain Words* (H.M.S.O.).

E80. Lecturer to be announced. 25 lectures of 1½ hours, Tuesdays at 6:30 p.m., beginning October 4th. Arts Building. Fee \$38.00.

ADVANCED COURSE IN ENGLISH COMPOSITION FOR BUSINESS WRITING. *Texts:*

R. L. Shurter, *Effective Business Letters* (McGraw-Hill); Miller, *A Grammar of Modern English* (Longmans); Allen, *Living English Structure* (Longmans); Willoughby Johnson, *Exercises in English* (Houghton Mifflin).

E81. Professor Kathleen Vaughan. 25 lectures of 1½ hours, Tuesdays at 6:30 p.m., beginning October 4th. Arts Building. Fee \$38.00.

SECTION M

EVENING COURSES AT MACDONALD COLLEGE

Evening courses have been offered at Macdonald College for some years. The number and variety of these courses have now been greatly increased and each year they will be listed in this announcement. This development is intended as a service to people who live toward the west end of the Island and who may find it more convenient to go to Macdonald College than to come to McGill in the evening.

EXTENSION COURSES

The McGill Extension Department registration card may be used to register for Macdonald courses and you may register by mail, BUT you must mail your card and cheque (*made out to Macdonald College*) to EXTENSION SERVICE, MACDONALD COLLEGE, P.Q. Since there is a post office at Macdonald College, address your letter to Macdonald College, P.Q., rather than to Ste. Anne de Bellevue.

GENERAL INFORMATION—MACDONALD COLLEGE COURSES

REGISTRATION.—You may register by mail, starting September 6th.

Please use the enclosed card, fill in all four sections, and mail it, with your cheque or money order (payable to Macdonald College), to the Extension Service, Macdonald College, P.Q.

ALL of the information asked for on the card—your address, telephone numbers, employer, educational background, etc.—is important to us in conducting the program and in planning for future courses. If we do not have your telephone number, we cannot notify you of the cancellation of a lecture. We would appreciate your cooperation.

Although registration by mail is advisable, students may register at the College during the day or evening, as follows:

Day Registration: Extension Service office, south side of Women's Residence, 9 a.m. to 4 p.m., Monday to Friday inclusive, September 6th to October 18th.

Evening Registration: *Ground floor, Main Building, 7 to 8 p.m. on the night the class is held.*

LIMITED CLASSES.—In some of the courses as, for example, language classes, in which the progress of the student is dependent on his participation and the individual attention of the instructor, the size of the class is limited. In such cases, enrolment is on a "first come, first served" basis. It is advisable, therefore, to register early.

FEES.—The fee as indicated for each course is payable in advance, at time of registration. If, after the first lecture, you find that the course seems unlikely to meet your needs, a refund of the whole fee may be obtained by presenting your Student card at the Extension Service office between the hours of 9 a.m. and 4 p.m. No refunds will be made after the date of the second lecture in the course. If refund by mail is desired, the Student card must reach the Extension Service office *before the second lecture* and three weeks be allowed by the student for receipt of refund cheque.

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CANCELLATION OF COURSES.—The student fee charged for these evening courses is essentially what it costs to put them on, assuming a certain minimum registration. If the registration in a course is less than the required minimum, the Committee reserves the right to cancel the course and refund fees.

TEXT BOOKS.—All required text books may be purchased at Extension Service office.

THANKSGIVING HOLIDAY.—No classes will be held on Monday, October 10th,

CHRISTMAS HOLIDAYS.—The last lecture before Christmas will be on Thursday, December 15th. For new courses beginning in January, ask in December for special announcement.

EXTENSION OFFICE.—The Extension Service office is located on the south side of the Women's Residence.

TELEPHONE.—Ste. Anne de Bellevue GL. 3-5335, local 16 (before 5 p.m.).

COURSES

M1. DRAWING AND PAINTING. Gino Lorcini. 10 sessions of 2 hours, Tuesdays at 8.00 p.m., beginning October 4th. Main Building, Macdonald College. Fee \$20.00. Class limited.

M2. DRAWING AND PAINTING. Patrick A. Landsley. 10 sessions of 2 hours, Thursdays at 8.00 p.m., beginning October 6th. Main Building, Macdonald College. Fee \$20.00. Class limited.

The instruction in these courses is neither formal nor academic, but is designed to develop skill, interest, and latent talents. The class paints and draws from living models and still-life.

M4. INTRODUCTION TO ENGLISH LITERATURE I. Colin Meir, Department of English. 10 sessions of 1½ hours, Tuesdays at 8.00 p.m., beginning October 4th. Main Building, Macdonald College. Fee \$15.00.

This course is designed to acquaint the student with the historical development and social backgrounds of English literature. Selections from the major authors will be read and discussed in class. The work in this term will trace the development of English literature from its beginnings to the end of the 17th Century.

M5. INTRODUCTION TO ENGLISH LITERATURE II. Colin Meir, Department of English. 10 sessions of 1½ hours, Tuesdays at 8:00 p.m., beginning January 17th, 1960. Main Building, Macdonald College. Fee \$15.00.

EXTENSION COURSES

In this series the development of English literature from the 18th Century to the present day will be considered with special emphasis on the contemporary period.

- M6. **INTRODUCTION TO PSYCHOLOGY.** Prof. J. E. M. Young, Institute of Education. 10 lectures of 1½ hours, Tuesdays at 8.00 p.m., beginning October 4th. Main Building, Macdonald College. Fee \$15.00.

This course will provide a brief introduction to some of the topics with which modern psychology is concerned: human growth and development, perception, motivation, individual differences, learning, mental health, and psychology in education, industry, etc. *Prerequisite:* High School matriculation.

- M7. **CONVERSATIONAL FRENCH.** Dr. S. C. M. Hawkins and staff, Institute of Education. 10 sessions of 1 hour, Tuesdays at 8.00 p.m., beginning October 4th. Main Building, Macdonald College. Fee \$10.00.

French Conversation with a minimum of grammar and written work. Students meet in one large group for demonstration and discussion at 8.00 p.m. on the first evening of the course. On the basis of their own assessment they then attend the elementary, intermediate or advanced course. Students enrolled in one course are welcomed as auditors in another course given at a different time. In the intermediate section the text is used as a point of departure for extempore conversation. The second term courses are envisaged as continuations of the first term courses, but this fact need not prevent new registrations in January.

- M9. **EFFECTIVE READING.** Mrs. M. H. Dubreuil, Department of English. 12 sessions of 1½ hours, twice per week, Tuesdays and Thursdays at 8.00 p.m., beginning October 4th. Main Building, Macdonald College. Fee \$18.00.

This course is designed to help you read faster and better. If your reading rate is 200 words a minute or less you can, with practice and application, double this rate by the end of the course. Limited class.

- M12. **HOME GARDEN LANDSCAPING.** Mr. Juri Roht, Department of Horticulture. 10 lectures of 1½ hours, Tuesdays at 8.00 p.m., beginning October 4th. Main Building, Macdonald College. Fee \$15.00.

Landscape design, improvements of soil, fertilizing plant material, lawns, care of trees and shrubs, etc.

- M13. **THE FLOWER GARDEN.** Mr. Juri Roht, Department of Horticulture. 10 lectures of 1½ hours, Tuesdays at 8.00 p.m., beginning January 17th. 1961. Main Building, Macdonald College. Fee \$15.00.

Design of flowerbeds, perennial plants, annual flowers, plantings and care of flowerbeds. Propagation of flowers both out of doors and in the house. Lectures will be supplemented by practical periods in the greenhouse.

MACDONALD COLLEGE COURSES

- M14. **COMMERCIAL LANDSCAPE GARDENING:** Mr. Juri Roht, Department of Horticulture. 10 sessions of 2 hours, Wednesday at 8 p.m. beginning Oct. 5th. Main Building, Macdonald College. Fee \$25.00.

The course is exclusively for those engaged commercially in landscaping work.

- M27. **LAW FOR THE LAYMAN.** Mr. Roy C. Amaron. 10 lectures of 1½ hours, Tuesdays at 8.00 p.m., beginning October 4th. Main Building, Macdonald College. Fee \$15.00.

A practical survey of the Law as it relates to the holding and transferring of property, persons, their status and functions, obligations and special contracts as well as Public Law, Criminal and Administrative, Company Law and Industrial Relations, and the basis of the Canadian Constitution.

- M28. **SEWING.** Elementary. Mrs. K. Murray. 10 sessions of 2½ hours, Tuesdays at 7.30 p.m., beginning October 4th. Main Building, Macdonald College. Fee \$20.00.

A laboratory course in elementary sewing in which a simple garment is constructed. Instruction is given in selection of patterns and materials, the use of the sewing machine, laying on and cutting out pattern, fitting and altering patterns and basic techniques of garment construction.

- M29. **SEWING:** Advanced. Mrs. M. Bubar. 10 sessions of 2½ hours, Tuesdays at 7:30 p.m., beginning Oct. 4th. Main Building, Macdonald College. Fee \$20.00.

- M30. **PUBLIC SPEAKING.** The Rev. John W. Kerr. 10 sessions of 1½ hours, Tuesdays at 8.00 p.m., beginning October 4th. Main Building, Macdonald College. Fee \$15.00.

An elementary course for those with little or no previous experience in public speaking. Will cover the preparation and delivery of a speech, the choice of language, the introduction and thanking of speakers, the duties of a chairman and the conducting of meetings. Students will be asked to prepare and deliver speeches, and to take part in short debates.

- M31. **ENGLISH FOR NON-ENGLISH:** Mrs. Muriel Wells. 10 sessions of 1 hour. Thursdays at 8 p.m. beginning October 6th. Main Building, Macdonald College. Fee \$10.00.

- M32. **CERAMICS (non-professional).** Rosalie Namer. 10 sessions of 2½ hours—2 terms. Three classes limited to 12 people each: Wednesday and Thursday afternoons at 2 p.m. and Wednesday evening at 7:30 p.m. Fee \$25.00 per term. Wednesday classes begin October 5th and the Thursday class on October 6th.





JEAN L. LAUNAY
Director



PIERRE NARDIN
Visiting Professor



THADDÉE ROMER
Assistant Director



THE ARTS BUILDING

*FRENCH
SUMMER
SCHOOL*



*MCGILL
UNIVERSITY*

MONTREAL, CANADA

*June 28 - August 10, 1960
44th Session*

Director: Professor J. L. LAUNAY

PUBLICATIONS

The following official publications are issued by the University and may be obtained from the Registrar's Office.

Announcements of Faculties and Schools as follows:

General Announcement
School Certificate Examinations
Scholarships, Bursaries, and Loan Funds
Faculty of Arts and Science (Degrees in Liberal Arts and in Pure Science. There is a separate Announcement for the School of Commerce.)
Faculty of Medicine
Faculty of Medicine Postgraduate Courses
Faculty of Dentistry
Faculty of Engineering (Degrees in Engineering and in Architecture)
Faculty of Law
Faculty of Music
Faculty of Divinity
Faculty of Graduate Studies and Research
School of Commerce
Institute of Education
Library School
School for Graduate Nurses
School of Physical and Occupational Therapy
School of Social Work
Macdonald College (Faculty of Agriculture, and School of Household Science.)
French Summer School
Extension Courses

The Directory of Staff (University administrative officers, standing committees, and officers of instruction. Limited distribution.)

The Calendar (Available for distribution only to libraries and officials of certain institutions.)

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Thaddée ROMER, Officier de la Légion d'Honneur, Licencié-ès-Sciences Politiques et Sociales (Lausanne); Assistant Professor of French and Administrative Assistant to the Chairman of the Department of Romance Languages, McGill University; *Assistant Director of the School*

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Mme Lilyane DARIOSECQ, B.-ès-L., Licenciée-ès-Lettres, Diplômée d'Etudes Supérieures (Paris); Instructor in French language and literature, Mount Holyoke College, South Hadley, Mass.

Mlle Thérèse FÉRAULT, B.-ès-L. (Paris), Bac. en Sciences Médiévales, Licenciée-ès-Sciences Médiévales, Maîtrise en Linguistique (Université de Montréal); Teacher of French, Weston School, Montréal, and Lecturer in the Extension Department, Université de Montréal.

Mlle Lorraine GABOURY, B.Mus. (Université de Montréal), Maîtrise en Musique (Université de Montréal), ancienne élève de l'Ecole Normale de Musique et du Conservatoire de Paris; Professeur de Musique et de Langues vivantes, Commissions des Ecoles Catholiques de Montréal.

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Henri JONES, B.-ès-L. (Paris), Certificat d'Etudes françaises supérieures, Professorat de Civilisation française, Docteur de l'Université (Toulouse); Research Fellow, Cleveland Museum of Fine Arts; Lecturer in French, McGill University.

Mlle Elizabeth LA MOTHE, Diplômée d'Etudes Supérieures de Lettres (Université de Montréal); Senior Teacher of French, Trafalgar School, Montréal.

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André LE VOT, Licencié-ès-Lettres (Paris), Diplômé de l'Ecole Supérieure de Préparation des Professeurs de Français à l'Etranger (Paris), B.A., First Class Honours (London), Diplômé d'Etudes Supérieures (Lille), Certificat d'Aptitude à l'Enseignement du Second Degré, Agrégé de l'Université de France; Professeur au Lycée Chaptal et à l'Ecole des Hautes Etudes Commerciales, Paris.

Maurice RABOTIN, B.-ès-L., Licencié-ès-Lettres (Paris); Lecturer in French, McGill University.

Mlle Marie-Thérèse REVERCHON, O.I.P., B.-ès-L., Licenciée-ès-Lettres (Paris), Diplômée d'Etudes Supérieures (Paris), Certificat d'Aptitude à l'Enseignement dans les Lycées, Agrégée de l'Université de France; Associate Professor of French, McGill University.

Mme Lucie TOUREN-FURNESS, O.I.P., B.-ès-L., Licenciée-ès-Lettres (Paris); Emeritus Professor of French Language and Literature, McGill University.

In addition to the regular Resident Staff, Assistant Instructors will be appointed as necessary, in order to keep classes down to a size compatible with maximum teaching efficiency.

GROUP LEADERS

The *French Song Groups* will be conducted by Mlle Lorraine Gaboury.

The leader of the *French Dramatic Group* will be M. Maurice Rabotin assisted by Mme Lilyane Dariosecq.

The Editor of *Chantecler* (the weekly French paper produced by the Staff and Students of the School) will be M. André Le Vot.

VISITORS

As in the past, the School will have the honour of entertaining French diplomatic representatives and other distinguished French and Canadian men and women residing in or passing through Montreal. All students will have an opportunity of conversing with the visitors and asking them questions on subjects of topical interest.

The School extends a cordial invitation to American University Professors of French who may be spending their vacations in Canada, and to their Canadian colleagues. They will always be welcome at the School, and the Director will be glad to authorize them to attend any lectures in which they may be interested, or, if space permits, to spend a few days in the refreshing atmosphere of the French House.

“MONTREAL, — UNE GRANDE MÉTRO-
POLE D'UN MILLION ET DEMI D'HAB-
BITANTS, DONT LES DEUX-TIERS
SONT DES CANADIENS DE LANGUE
FRANÇAISE . . . CE N'EST PAS
SANS RAISON QUE L'ON A PU DIRE:
MONTREAL EST LA PLUS GRANDE VILLE
FRANÇAISE DU MONDE APRÈS PARIS.”

THE FRENCH SUMMER SCHOOL OF MCGILL UNIVERSITY

THE FRENCH SUMMER SCHOOL AND ITS ENVIRONMENT

The French Summer School (established in 1904) is one of the specialized Schools of the Faculty of Arts and Science of McGill University, an Institution internationally known for its high academic standards, whose Royal Charter dates back to 1821.

Credits obtained at the French Summer School may be counted towards McGill Undergraduate or Graduate Degrees. They are recognized by and transferable to all accredited Colleges and Universities on the North-American continent.

The French Summer School is the *only* activity conducted on the McGill Campus during the summer, and all the facilities of McGill University, from libraries to swimming-pools, are at the disposal of its students and Faculty.

The excellent academic background of the French Summer School is only one of its salient features. Of great practical importance are, also, the advantages derived from the location of the School in the Metropolis of Canada.

Montreal is not an exclusively French-speaking city; it is bilingual, and English is as frequently heard as French in its business district. But over a million residents on the Island of Montreal have French as their native language, use it daily in their homes, clubs, schools and churches, read French newspapers, listen to French radio and T.V. stations and strongly resist the inroads of English in their cultural life. The population of Montreal ranks immediately after that of Paris (France) as the largest French-speaking city group in the world. Nowhere else on this continent can the serious student of French find a greater concentration of French "realia" or a richer diversity of "live" visual and aural teaching aids.

THE AIMS OF THE SCHOOL

If living in the "French atmosphere" of Montreal is a pleasant and enriching experience, breathing in the air of the city is unfortunately not enough to improve one's ability to speak or understand French. Any one who wishes seriously to attain a degree of fluent correctness in French must follow a carefully planned course of training which combines a lively up-to-date approach to linguistic problems with a study of the culture

which the language was made to convey. McGill French Summer School does its best to offer such a course.

The School has been designed primarily to suit the needs of *North-American College and University students, keen to gain a practical working knowledge of French* by "living the language", and interested in growing better acquainted with the literature, fine arts, and civilization of France, French-Canada and French-speaking peoples.

It is a *resident School* because the constant association of Staff and students at work and at play is the most effective way of promoting language practice. *French is the only language used at all times.*

The School programmes should appeal especially to:

Teachers of French, at all levels: they will find courses dealing with their professional problems, and stimulating methods.

Graduate students: they may take courses leading to the McGill Master of Arts degree in French.

French Majors: they will appreciate the wide choice of courses outside the usual College pattern.

High School Seniors about to enter College, and with sufficient language preparation will find in *Section A* the best possible preparation for College work.

FEATURES OF THE 1960 SESSION

1. *Our Visiting Professor*

The School is happy and proud to announce that Dean Pierre NARDIN has accepted the appointment of *Visiting Professor* for 1960.

Dean Nardin is familiar with McGill, where he held a chair of French Philology and Medieval Literature, from 1949 to 1953. He was Director of the French Summer School Session of 1952. To-day, as Dean of the Faculty of Arts and Social Sciences of the University of Dakar, he holds a key position in a newly-created Institution, called upon to play a major part in the higher education of the white and coloured French-speaking population of Central Africa.

Dean Nardin's scholarship in the fields of stylistics and medieval studies is widely recognized. He is the author of a critical edition of and a lexicon to the *Fabliaux* of Jean Bodel, a XIIIth century storyteller. His publications in the field of stylistics include a weighty tome on *La langue et le style de Jules Renard* and, more recently, *Le commentaire stylistique aux rendez-vous littéraires*. Numerous articles of his have appeared in journals. One of them in *Le Français moderne*, entitled *La recette stylistique des "Lettres Persanes"* won him

the *Prix Montesquieu*, in 1952. The prize, awarded by the Academy of Bordeaux, consisted of one hundred bottles of the best claret from the Academy's famed cellars. Dean Nardin's wine could not however be shipped to Canada, and our esteemed colleague had to wait a while to sample his original and valuable prize . . . Dean Nardin can rest assured of a great welcome at McGill. His students will have many opportunities to appreciate his brilliant teaching, his encyclopaedic knowledge and his eagerness to encourage research.

2. New courses

Courses listed in the *Language sections* of the Announcement are not changed from year to year, as experience has shown that they answer the needs of the great majority of the student body.

On the contrary, courses listed in the *Literature and Civilization sections* one Session are very seldom repeated the following year. Exception is made only in the case of courses for which there has been a special demand. Three such courses, given in 1959, will again be offered in 1960:

25. *From Book to Stage* (N.B.: a double course).

26. *La France, de 1945 à 1960*.

43. *La Cinquième République*.

Attention is also called to new cultural courses on various aspects of French art:

27. *Cathédrales et Châteaux de la Loire*.

28. *Le troisième âge d'or de la musique française*.

44. *Cent ans de peinture française: 1860-1960*.

The art courses will provide interesting material and opportunities to learn some technical and a great deal of every-day French.

3. For Teachers of French.

Aims and techniques in Modern Language teaching have recently undergone profound changes. They are of special interest to a large proportion of students who either are, or plan to become, teachers of French. Guidance in the best methods of conducting classes at the elementary and introductory levels is of the utmost importance to them. Under the auspices of the McLean Foundation, Mlle T. Férault has, since 1956, been in charge of experimental bilingual teaching at Weston School, and she is both an outstanding teacher and an acknowledged specialist in the field of language pedagogy. Her course (No. 50: *L'enseignement du français et ses problèmes*) should be of great practical value.

4. *Language Practice Laboratory:*

A language laboratory is not essential to a *resident* School with a high ratio of Staff to students: a student in difficulty always finds an Instructor eager to assist, who will prove more helpful than any machine . . .

However, for the benefit of those in *Sections A* and *B*, a small language practice laboratory is set up in the French House (Douglas Hall). It consists of turntables equipped with earphones allowing groups of three to work with the same record at the same time and of tape-recorders with which students can check their own pronunciation.

Lessons which have been taught in the lecture room in the morning will be available in record form in the afternoon. All records are cut by Staff members, and some courses (*viz*: Nos. 1, 3, 4, 13, 14 and 32) will be recorded in their entirety.

5. *French Song Groups*

An Instructor has been especially appointed to lead groups in the singing of French and French-Canadian songs. The value of singing in a foreign language as an approach to the sounds and rhythms of the language cannot be too much stressed, and all students—even those who doubt their singing ability—must avail themselves of this opportunity to learn French "*par la joie*."

6. *Dramatics*

The School has always been noted for the polish and ingenuity of the production of their French plays, and all the students who acted in them have agreed that the experiment had considerably improved their confidence in the use of spoken French.

The benefits accruing from this should not be limited to a few advanced students or to those taking Course No. 25, but should be available to the whole student body. To increase the possibility of gaining this valuable experience, a number of easy, short scenes will be offered by *Section A* and *B* students. They will be performed arena-style and it is hoped that students of all Sections will take advantage of this opportunity thus to improve their spoken French.

7. *Evening lectures*

The Monday evening lectures, open to students and their guests, provide excellent opportunities to test one's progress in aural comprehension. They offer material of topical and general interest.

The Guest Lecturers will be distinguished French-speaking Canadians. They will deal with some of the political, artistic and spiritual aspects of French-Canada to-day (as part of the programme described in para. 8). Their names will be announced on Registration Day.

Dean Nardin will speak on the Central African Republics in the French Community of Peoples, and the Director of the School will outline the scientific and technical progress recently achieved by France in the fields of electronics, nuclear reactors and the oil industry.

8. Taking advantage of the School's French-Canadian background

French Canada has much to offer to those who make the effort to learn its language. To the superficial observer, its way of life may appear "americanized". But the student soon finds that the French Canadian community has remained refreshingly different from all other North-American groups. As he becomes aware of the historical, religious and political factors which have shaped the French Canadian institutions and scale of values, he realizes that the Province of Quebec stands for a certain type of civilization which bridges the gap between the Old World and the New. To spend six weeks in Montreal without trying to make contact intelligently with French Canada would be losing a great educational opportunity.

The School endeavours to facilitate such contact in a variety of ways. A grant from the CARNEGIE CORPORATION OF NEW YORK will, in 1960, enable the student body to participate more fully in the activities of the French-speaking group.

The 1960 programme includes:

1. The evening lectures described in para. 7.
2. A two-day tour of the St. Lawrence Valley, Quebec City, the Island of Orleans and the Laurentians north of Quebec, to take place on 15, 16, 17 July. Participants will leave Douglas Hall by chartered coaches on Friday midday and return on Sunday night (*Saturday morning lectures will be cancelled for the whole School*).

Total cost of this tour, including transportation, accommodation, meals and fees, will not exceed \$25.00. Complete details will be announced on Registration Day.

As this tour demands very careful planning, students are requested to indicate as soon as possible, and in any case, not later than Registration Day, their intention to participate.

Carnegie Corporation Scholarship holders will participate free of charge.

3. Conducted visits to scenes of French Canadian business, intellectual and artistic activities in Montreal will be arranged for smaller groups, free of charge.

4. Free tickets to French plays produced during the Montreal Festivals or to outstanding French movies shown in city theatres will be made available to student groups.

5. A half-day visit to the Laurentians north of Montreal will be arranged before the final examinations, at very small cost.

Professor Romer, Assistant Director of the School, will again assume the heavy responsibility of all School-sponsored tours and visits.

STATUS OF STUDENTS IN THE SCHOOL

The School admits only *full-time students* (i.e. students paying full tuition fees and prepared to take the minimum number of courses specified below).

With the Director's permission, *partial students* may be admitted if qualified to take courses in *Section C (Advanced)*.

THE SECTION SYSTEM

On Registration Day, with the assistance of Interviewing Boards, students enroll in ONE Section, and select their courses from those offered in that Section.

Students enrolled in *Section A* must select a minimum of 6 (and a maximum of 7) courses.

Students enrolled in *Sections B and C* must take a minimum of 5 (and a maximum of 6) courses.

One—and only one—of the courses selected may be taken from those offered in a Section other than the one in which the student has enrolled.

Students proceeding to a McGill M.A. are subject to special regulations (see page 4035). They are considered full-time students during the four Sessions leading to the degree, and pay full tuition fees, whatever the number of courses actually taken.

ADMISSION REQUIREMENTS

Applicants for admission to the French Summer School must meet specific requirements in respect of health, age, general education and proficiency in French.

1. HEALTH

The School cannot accept any student suffering from a serious physical disability or any student under medical treatment.

Applicants with health problems should write confidentially to the Director, quoting the name and address of their physician, before they send in their application. They will be advised promptly whether their registration is acceptable.

2. AGE.

(A) *Minimum:*

The School does not accept any students who have not attained the age of 18 by the day of Registration.

Exceptions to this rule can be made only in the case of:

1. Students who attended the 1959 Session, took the final examinations and were awarded a *Certificate*.
2. Recommended students who will have completed at least one semester of satisfactory work in a regular degree course at a recognized College or University, before the opening of the School session.

(B) *Maximum:*

The School does not normally accept students who are over 40 years of age, unless they are Graduates qualified to take courses in *Section C (Advanced)*, or specially recommended Teachers of French.

3. GENERAL EDUCATION.

The School accepts only individuals who are:

- (a) *either* College or University graduates.
- (b) *or* students proceeding to a degree at a recognized College or University in Canada or the United States, provided that they have satisfactorily completed at least one semester of regular studies.

Individuals who have not completed their secondary education are not admissible.

Applications will, however, be *considered* from students in Public, High or Private Schools who meet all other requirements and who have been accepted by a recognized College or University to begin a degree course in September 1960. Proof of such acceptance must be submitted with French Summer School Application Form, and final admission to the French Summer School will be decided on merit.

4. PROFICIENCY IN FRENCH.

Since the only language used at the School is French, a limited but working knowledge of the spoken language is the logical requirement for admission to *Section A* (Introductory).

Admission standards for the 3 Sections are described below in terms of "years of French" done at School, College or University. They are intended to serve only as an indication and should not be interpreted rigidly. Considerable differences exist on the North-American continent in French teaching methods and standards, the contents of a "year of French" vary with institutions, and a "reading knowledge" is no guarantee of sufficient fluency.

Section A (Introductory)

Applicants should normally have completed one semester of College French, following at least 2 years of French before College. If French was begun at College, 4 semesters represent the minimum qualification.

Section B (Intermediate)

Applicants should normally have completed 2 or 3 years of their College or University degree course, with French as their continuation or major subject. They should be able to speak with some fluency (using an active vocabulary of approximately 2,000 words), to write correct grammatical French and to read French at a fair speed. Some acquaintance with French literature and civilization will be found an asset.

Section C (Advanced)

Applicants should normally have graduated (or be graduating) with French as their Major, and contemplate teaching or graduate work in French. They must be familiar with the main literary movements from 1600 to the present day and have read some of the more important writers.

Applicants uncertain of the Section best suited to their needs may write to the Director for advice. In any case, all accepted students will be interviewed on Registration day by panels of Staff who will guide their selection of Section and Courses.

APPLICATIONS FOR ADMISSION

Applications for admission to the School must be made on an *Application Form* obtainable from the Secretary; an identity photograph should be attached to the form.

The completed Application Form, accompanied by a letter of recommendation and the Registration fee of \$25 (Canadian) must reach the Secretary's Office before June 15. Accepted applicants will receive a *Letter of Admission*.

The Registration fee will be refunded to students who withdraw before June 15. After that date, it will be held until the following Session, after which it will be forfeited.

Students applying for scholarships should note requirements listed on page 4017.

Students are advised to apply well in advance, especially if they wish to stay at the French House. Accommodation is limited and rooms will be reserved on the first come, first served, basis. Partial students can be accommodated only if space is available on Registration Day.

OPENING DATE

The School will open on Tuesday, June 28, and close on Wednesday, August 10.

Students in residence at the French House will be permitted to spend the night of June 27-28 in the residence *provided* that they give due notice to the School Secretary and arrive between 5 P.M. and 10 P.M. on June 27.

No meals will be served before breakfast on June 28.

REGISTRATION

Registration will take place in the Arts Building, on Tuesday, June 28.

Students will register according to the following schedule:

Resident Students:

- (a) *Section A* students will register on the morning of Tuesday, June 28 from 9:30 A.M. to 12:30 P.M.
- (b) *Section B* and *Section C* students will register on the afternoon of Tuesday, June 28 from 2 to 5 P.M.

Non-resident Students:

All non-resident students will register on the morning of June 28 from 9:30 A.M. to 12:30 P.M.

The *Opening Exercises*, which all students should attend, will take place on Tuesday, June 28, at 8 P.M., in the Common Room of Douglas Hall (French House).

Special arrangements may be made for teachers unable to leave their duties in time to reach Montreal for Registration Day, provided that the delay in their arrival does not exceed two days and is duly notified to the Secretary.

FEES

Registration Fee.....	\$ 25
Tuition fee for full-time students.....	125
Residence (room and board).....	180
Fee for a three-hour course taken as a partial course.....	35
Students should also make provision for textbooks and participation in the School educational tours, the total of which may be approximately.....	50

FEES FOR M.A. STUDENTS (see page 4037)

FEES ARE PAYABLE IN CANADIAN FUNDS. As the Announcement goes to press, the rate of exchange is approximately 95 Canadian cents to one U.S. dollar (or \$1 Canadian = \$1.05 U.S.)

Students should pay all fees in cash or by cheque drawn on a Canadian Bank at the time of registration.

After registration has taken place, no fees will be refunded to any student who:

- (a) leaves the School without permission of the Director or Assistant Director;
- (b) is dismissed from the School by the Dean.

Should a student's presence be required at home during the session (in case of illness or domestic affliction), he must first obtain permission to leave from the Director or the Assistant Director. A refund of fees will later be arranged according to the circumstances of each individual case.

VETERANS

The School has been approved as one of the recognized institutions where U.S.A. and Canadian Veterans may continue their studies. The School tuition fees will therefore be paid by the Department of Veterans' Affairs provided that:

- (a) U.S. students obtain a Certificate of Eligibility from their local Veterans' Administration Agency.
- (b) Canadian students obtain a Certificate of Eligibility from their local D.V.A. representative.

The Certificate of Eligibility should be delivered to the Cashier at the time of registration. Failing this, the fees must be paid in full, subject to refund when the Certificate is received.

Veterans in residence will be required to pay the \$25.00 registration fee, which will be deducted from the residence charge as the latter will NOT be paid for by D.V.A.

SCHOLARSHIPS

The following scholarships are offered for the 1960 Session:

1. *TWENTY Special Scholarships* made available thanks to a very generous grant from the CARNEGIE CORPORATION OF NEW YORK.

They are open only to *United States Citizens* (undergraduates attending a College or University in the United States or graduates who are teachers of French in an Elementary or Secondary School, public or private, in the United States). They are tenable in *Sections A, B or C*.

The actual awards will be determined by the applicants' achievements and needs. It is anticipated that the average amount awarded will be \$300.00 (U.S.), covering approximately three-quarters of a student's total expenses.

2. *ONE Province of Quebec Scholarship* of \$150.00 (Can.), open only to Canadian Citizens who teach French in an English-speaking High School in Canada.
3. *TWO French Government Scholarships* of \$100.00 (Can.) each, open to Canadian citizens, undergraduate or graduate students, qualifying for admission into *Sections B or C*.
4. *FIVE French Summer School Scholarships* of \$150.00 (Can.) each, open to all students qualifying for admission into *Sections B or C*.

All applications for scholarships must be made on a *Special Form* obtainable from the School Secretary.

The completed *Application for Scholarship Form* should reach the School before 20 May 1960. It will be processed after receipt of:

- (a) the *application for admission* blank.
- (b) the *registration fee* of \$25.00 (Can.)—(refundable).

(c) *TWO letters of recommendation*, which should be mailed direct to the Director of the School by the student's sponsors.

(d) *an official transcript* of College or University grades.

Scholarship winners will be notified on or before 5 June 1960.

N.B.: Scholarship holders are required to be full-time students, to reside at the French House, and to take final examinations.

FINAL EXAMINATIONS

A final examination is held in each course at the end of the session. Students are strongly recommended to take the final examinations, which are open to partial as well as to full-time students.

Students who fail to write examinations receive no marks, and their work and progress at the School cannot be assessed formally.

No substitute examinations can be arranged in any circumstances whatever.

THE FRENCH SUMMER SCHOOL CERTIFICATE

Full-time students who take and pass final examinations in ALL the courses in which they are registered are awarded the FRENCH SUMMER SCHOOL CERTIFICATE at the School Closing Exercises.

The CERTIFICATE is a document bearing the signatures of the Dean of the Faculty of Arts and Science, the Registrar of the University, and the Director of the School. It is a record of the courses taken and the grades obtained in the final examinations.

In order to qualify for the Certificate:

Students in *Section A* must take and pass 6 examinations (5 if they take Course 1).

Students in *Section B* must take and pass 5 examinations (4 if they take Course 25—From Book to Stage).

Students in *Section C* must take and pass 5 examinations.

A *First Class Certificate* is awarded for results averaging not less than 80%.

A *Second Class Certificate* is awarded for results averaging between 79% and 65%.

A *Third Class Certificate* is awarded for results averaging between 64% and 50%.

STATEMENTS OF EXAMINATION RESULTS

Students failing to qualify for a **CERTIFICATE** (either because they took less than the prescribed number of examinations, or because they failed in one or more examinations) receive a **STATEMENT OF EXAMINATION RESULTS**. This is a document signed by the Director or the School which lists the examinations passed by a student. Failures are not listed.

ACADEMIC CREDITS

Credits may be transferred from the French Summer School to other institutions, usually on the basis of one semester hour for each course taken.

Application for transfer of credits should be addressed to the Registrar of the University, who will forward an official transcript of French Summer School grades on payment of a fee of \$1.00. Students who intend to apply such credits towards a degree are recommended to obtain the consent of their own institution to the transfer of French Summer School credits before joining the School.

ACADEMIC CREDIT FOR MCGILL STUDENTS

McGill students in the B.A. course, may, in certain circumstances, and by taking a prescribed set of French Summer School courses, obtain credit for a First or a Second Year French course taken during the regular session in the Faculty of Arts and Science.

McGill students wishing to avail themselves of this privilege *must*, before completing registration, consult the Director of the School and the Assistant Dean of the Faculty of Arts and Science. Their approval of each student's programme is necessary for any course taken for credit.

THE FRENCH HOUSE

The residence used as a French House will be **DOUGLAS HALL** (postal address—3851 University St.).

Douglas Hall is a handsome stone residence of modern design, consisting of eight adjoining "houses" opening on a tree-shaded lawn, in the style of an English country house. It is pleasantly cool in the summer and adjoins playing fields and a large public park. It contains among other amenities a stately Tudor dining-hall, a spacious common-room, a library, and games rooms.

Men and women students will be accommodated in different "houses". They will have single study-bedrooms. The latter are grouped in suites of three or five, each suite having its own sitting-room.

There are a few double rooms. These will be allotted last unless specially requested, and no reduction of residence fee will be made to their occupants.

All rooms are completely furnished. Linen, towels, and blankets are provided.

Meals (breakfast, luncheon, and dinner) are served on the cafeteria system every day, including Sunday, and are under the supervision of a qualified dietitian.

All members of the Staff are in residence and associate freely with students at meals, in the Common Rooms, and in extra-curricular activities. This constant, helpful, and friendly relationship between students and Staff is one of the most valued features of the School and the benefits derived by the students from such informal education cannot be too strongly emphasized.

HEALTH SERVICE

Students in residence in the French House will have the benefit of the University Health Service for counselling and guidance. For emergencies recourse can be had to the Royal Victoria Hospital clinic which adjoins Douglas Hall. Referral to a private physician for other treatment will be arranged but the School cannot assume any responsibility for medical treatment.

In case of illness, the student concerned will be required to pay his medical and hospital fees.

CARS

Owing to parking problems and the congestion of traffic in Montreal, students are advised not to bring their cars to the School.

NO STUDENT PARKING WILL BE PERMITTED ON THE UNIVERSITY CAMPUS AT ANY TIME.

Limited parking space (available to Staff and students in residence, *at their own risk*) will be found on the terrace fronting on Douglas Hall. Use of this space will require PARKING PERMITS which the School will supply after Registration has been completed.

ARRANGEMENTS FOR STUDY AND RECREATION

Regular lecture classes are held in the Arts Building, in the centre of the University campus.

The mornings are devoted to lectures from 9 A.M. to 1 P.M. *Students are required to attend all the lectures for which they have registered.*

The afternoons are free for private study and recreation. However, students *should* attend:

The *French Song Groups*, under Mlle Lorraine Gaboury, which will meet four times a week in the Common Room at 2 P.M.

Monday and Wednesday meetings will be exclusively for *Section A* students.

Tuesday and Thursday meetings will be for *Section B* and *Section C* students only.

During the evenings there will be:

EACH WEEK: A special lecture

A concert of recorded French music

A showing of French movies

DURING THE SESSION: A students' concert

A treasure-hunt

Two or three evenings of French dramatics

In the Library, students find daily and weekly newspapers from French-speaking countries.

A TV set in the Common Room enables them to watch the excellent programmes from the French Television Network in Montreal.

The "Festival de Montréal" begins during the session. Every summer French plays are performed by the best professional Montreal companies.

In addition, the City of Montreal offers a number of popular attractions, such as the weekly open-air "Concerts Symphoniques" given in the evening on Mount Royal and scores of French restaurants and motion-picture theatres.

The swimming-pool in the Sir Arthur Currie Memorial gymnasium is available daily upon payment of a nominal fee. (N.B.: Bathing suits made of woollen materials are prohibited)

Those who wish to attend religious services with a French congregation will find both Protestant and Roman Catholic churches within easy walking distance of Douglas Hall.

USE OF FRENCH

Since the French Summer School aims at creating and preserving the spirit and the atmosphere of a French University best suited to needs of originally English-speaking students, it is natural that French should be the language spoken, to the exclusion of all others.

THE EXCLUSIVE USE OF FRENCH *AT ALL TIMES*, IN AND OUT OF CLASS, AND ESPECIALLY IN THE FRENCH HOUSE, IS THEREFORE *ABSOLUTELY COMPULSORY*.

When applying for admission, students pledge themselves to the *NO ENGLISH RULE* for the duration of the session. This rule will come into force immediately after the conclusion of the Opening Exercises, on 28 June. The rule means that students are in honour bound to speak French when conversing among themselves as well as when talking to the teaching Staff. It should not even be necessary to depart from the rule when visiting or shopping in Montreal where French is understood everywhere, and spoken by two-thirds of the population.

The rule may be relaxed in special cases only (illness, visits from and to relatives, or when matters of special importance must be attended to urgently).

The co-operation of all students is expected in maintaining the *NO ENGLISH RULE*. Those who may be doubtful about their ability to keep it strictly should remember that the effort required of them will be less and less as the Session progresses. They should bring with them such helps as vocabularies, conversation books, and pocket dictionaries, which will be very useful for the first few days. However, they will soon find that they can dispense with them. As their command of spoken French improves rapidly, they will experience a feeling of achievement, and the greater their enthusiastic adherence to the Rule, the better and quicker their progress.

Students should, in their own interest, refrain from reading English newspapers (seven French newspapers are published in Montreal and French newspapers are received by air-mail from France every day), and from listening to radio broadcasts in English (there are five French-speaking radio stations and one French-speaking TV station in Montreal).

Any student who persists in breaking the *NO ENGLISH RULE* will be brought before the Dean of the Faculty of Arts and Science, who may dismiss him from the School.

TELEPHONES

As telephone calls practically always involve the use of English, resident students are NOT permitted to have private telephones installed in their rooms.

The telephones in the Porter's lodge are strictly out of bounds to students.

A public telephone cabin is at the disposal of students in the basement of Douglas Hall—but the NO ENGLISH rule applies there too. Resident students who have to call non-French speakers will do so *outside* the residence. Students would be well advised to ask their parents not to call them at Douglas Hall, except in emergencies.

VISITORS

Students are NOT permitted to entertain in Douglas Hall friends who cannot speak French. In any case visitors are restricted to the Common room, Dining room and grounds. They are not allowed to visit students in their suites. This rule can be relaxed only in the case of students' fathers and/or mothers, on the first and last days of the Session.

REDUCED RAILWAY FARES

Arrangements have been made whereby students may obtain reduced fares from all points in Canada. Students wishing to avail themselves of this reduction should buy a one-way ticket and obtain *at the same time* a "Standard Certificate". This certificate must then be signed by the Director of the School. On presenting it at the Montreal railway ticket office, students may obtain a return coupon at the reduced fare (one-third of the cost of a one-way ticket).

"Standard Certificates" will be available to students purchasing their one-way tickets as follows:

- (a) From all stations EAST (and including Fort William and Armstrong, Ont.)—except Newfoundland:
from June 24 to June 28
- (b) From stations in Newfoundland only:
from June 23 to June 29
- (c) From all stations WEST of Fort William and Armstrong, Ont.:
from June 22 to June 28

Last honoring date of "Standard Certificate" for return journey will be August 13, 1960.

U.S. students from the Great Lakes area will find it advantageous to break their journey at the Canadian border so that they may avail themselves of the reduced fare for the remainder of their passage to and from Montreal.

BAGGAGE

The following is an extract from a memorandum (Series D, No. 12, Supplement No. 1, 15th January, 1936) of the Department of National Revenue, Customs Division:

"Radios, phonographs, musical instruments and other effects for personal and sporting use, not ordinarily entitled to entry free of duty as travellers' baggage, may be admitted without payment of duty and without deposit provided they are reported to the Customs Office and provided that these articles are imported for the use of the students themselves and will be exported under Customs supervision immediately after the closing of the School."

IMMIGRATION REQUIREMENTS

Students who are not residents of Canada should bring with them for presentation to Canadian Immigration officers their *Letter of Admission* to the 1960 session.

United States citizens should carry some documents of identification such as old passports, birth or baptismal certificates, tax bills, and similar papers in order to facilitate their return to their country.

Students who are citizens of the United States by naturalization should carry their naturalization certificates, and those who have not acquired such status should present evidence that they are legally in the United States and that they will be allowed to re-enter that country after their temporary stay in Canada.

BANKING ARRANGEMENTS

It is recommended to out-of-town students that they bring letters of credit or use traveller's cheques, rather than draw ordinary cheques on their home banks.

COURSES OF INSTRUCTION

SECTION A

Students wishing to qualify for the Certificate must take *six* courses. Course 1, being a six hour course, will be counted as equivalent to two normal courses. Students taking Course 1 need include in their curriculum 4 other courses only. *Section A* students may take 1 course in *Section B*.

1. LIVING FRENCH : A NEW ORAL-AURAL APPROACH TO SPOKEN FRENCH

This basic course aims at:

- (a) developing the student's familiarity with the sounds of the French spoken in everyday life by well-educated French people;
- (b) building up a comprehensive, organized knowledge of the vocabulary which recurs most frequently in polite conversation;
- (c) increasing the student's general fluency in speaking French by individual and group practice under experienced specialists.

All Section A students who, at the time of registration, experience difficulty in understanding French when spoken slowly are recommended to take this course. The size of the classes will be strictly limited and students will be grouped according to their proficiency.

Recorded material for this course will be available at the Practice Laboratory.

Mon., Tues., Wed.,
Thurs., Fri., Sat. at 9.

Mlle FÉRAULT
Mlle LA MOTHE
M. RABOTIN
M. ROMER

2. FUNCTIONAL GRAMMAR

This course, which will consist of oral and written work, will include:

- (a) a revision of the rules of French grammar which the average student generally finds somewhat difficult to master (e.g. use of tenses, especially infinitive and subjunctive, relative pronouns, past participles, etc.);
- (b) written translation work from English into French for the purpose of general grammar review.

Mon., Wed., Fri. at 10.

Mlle LA MOTHE
Mlle REVERCHON
M. HIRSCH

3. EVERYDAY WORDS AND PHRASES

A systematic study of vocabulary selected for its practical value. Special emphasis will be laid on the fitting of new phrases into the pattern of conversation.

Mimeographed material will be supplied and phonograph records for this course will be available at the Practice Laboratory.

Mon., Wed., Fri. at 11.

M. HIRSCH

M. LEMARE

M. LE VOT

4. THE STUDY AND PRACTICE OF FRENCH SPEECH HABITS

This course is designed to develop the student's familiarity with French speech habits. Its aims are:

- (1) To emphasize the wide differences between spoken and written French and, by intensive drill, to accustom the student's ear to French sounds and rhythms, as well as to help him recognize words within the context of the spoken sentence—in other words to *hear* French;
- (2) to improve the student's French pronunciation by individual and group practice of vowels, consonants, rhythms, and intonation. Exercises will include the learning and repetition of carefully graded passages of conversational and literary French.

Phonograph records for this course will be available at the Practice Laboratory.

Tues., Thurs., Sat. at 11.

Mlle FÉRAULT

M. HIRSCH

M. LE VOT

5. MODERN FRENCH PROSE

The purpose of this course is to improve a student's ability to read quickly, yet accurately, modern French prose of quality. The course is recommended to students who will require later on a good reading knowledge of French.

Tues., Thurs., Sat. at 10.

M. JONES

M. ROMER

6. LANDMARKS IN 19TH CENTURY FRENCH LITERATURE

This course is specially designed for college students. It will be given in lecture form and will require a somewhat higher standard of aural comprehension than the courses listed above. It will *not* be a general survey course, but a vivid presentation of the outstanding literary figures of the period.

Mimeographed material will be supplied for this course.

Tues., Thurs., Sat. at 12.

M. LE VOT

7. THE FRENCH FOLK SONG

French folk songs belong to all periods of French history and to all classes of French society. They are one of the best means of understanding France and its civilization: its history, geography, customs, and language.

A selection of French songs from the Middle-Ages to modern times will be studied in this course. Students will be both audience and artists, and will take part in the singing of the songs on the programme.

Mimeographed material will be supplied.

Mon., Wed., Fri. at 12:15

Mlle GABOURY

(Douglas Hall Common Room)

SECTION B

Students wishing to qualify for the Certificate must take not less than five courses and include in their curriculum not less than two courses in Language (one of which must be Course 10 or Course 11) and not less than two courses in Literature and Civilization. Students taking Course 25 should note that it is a *double course* (i.e. one Language and one Literature). Students enrolled in *Section B* may take 1 course either in *Section A* or in *Section C*.

LANGUAGE COURSES

Courses will be given at different hours to allow a greater number of students to fit them into their individual time-tables.

10. COMPOSITION AND TRANSLATION

The purpose of this course is to review grammar whenever the opportunity occurs and to develop accuracy in the use of vocabulary and correctness in syntax by means of graded exercises, short compositions, and translations into French.

Tues., Thurs., Sat. at 9.
at 10.
at 11.

M. LEMARE
Mlle REVERCHON
Mlle LA MOTHE

11. ORAL PRACTICE IN SELF-EXPRESSION

This course will consist of prepared discussions on assigned subjects with special emphasis on correct sentence building and on accuracy in the use of an idiomatic vocabulary.

Tues., Thurs., Sat. at 9.
at 10.

M. HIRSCH
M. JONES

12. FRENCH PHONETICS

An elementary but attractive study of French sounds and of their rendering in the symbols of the International Phonetic Alphabet. The course will include periods of intensive practice in the afternoons when correction of individual speech defects will be given special attention. Students will have at their disposal up-to-date phonetic equipment and recording machines of various types.

Mimeographed material will be supplied and phonograph records for this course will be available at the Practice Laboratory.

Mon., Wed., Fri. at 9.
at 10.

Mme DARIOSECQ
Mme DARIOSECQ

13. DICTION

This course aims at a better appreciation of the aesthetic qualities of French used orally in prose and in verse. It will feature a number of special exercises designed to correct defects in pronunciation and intonation.

Mimeographed material will be supplied and phonograph records for this course will be available at the Practice Laboratory.

Tues., Thurs., Sat. at 9.
at 12.

M. LE VOT
M. HIRSCH

14. EXPLICATION DE TEXTES

This course is an introduction to the analytic French approach to the detailed study of literature. The method will be demonstrated and practised on selected passages of high literary and artistic quality. As the course bridges the gap between language and literature courses, College students majoring in French will find it both helpful and stimulating.

Mon., Wed., Fri. at 9.
at 10.

Mme TOUREN-FURNESS
M. LEMARE

LITERATURE AND CIVILIZATION COURSES

20. LA FONTAINE

Familiarity with the delightful animal world of La Fontaine is the hallmark of a French education: many quotations from the *Fables* have become proverbs and household phrases. Apart from this contribution to the enrichment of French phraseology, La Fontaine's witty common sense and the polished perfection of his verse make the fabulist representative both of French Classicism and of the more permanent characteristics of the French temperament.

Readings will include wide selections from the twelve books of *Fables*.
Mon., Wed., Fri., at 11

Mme LARIVIÈRE

21. AU SPECTACLE DE LA SOCIÉTÉ FRANÇAISE AVEC LA BRUYÈRE ET MONTESQUIEU

À la fin du XVII^e siècle, et au début du XVIII^e, deux grands écrivains, que sépare une génération, observent la société qui les entoure, la noblesse, la bourgeoisie, le peuple de Paris. Ils font revivre pour nous la vie, les modes et les institutions de leurs temps. Ils ne se privent pas d'ailleurs de les critiquer, tantôt avec ironie ou malice, tantôt avec indignation.

Les textes étudiés en classe et les lectures personnelles seront des extraits des *Caractères* de La Bruyère et des *Lettre Persanes* de Montesquieu.

Mon., Wed., Fri., at 10

M. NARDIN

22. JEAN-JACQUES ROUSSEAU

A survey of the life, writings and influence of the most important figure of the latter half of the XVIIIth century. Rousseau's faith in the goodness of Nature, his belief in the validity of "natural feelings", his original ideas on education, the bold political theories which made him a forerunner of the French Revolution will be reviewed in detail.

Readings will include extracts from *Les Confessions*, *Discours sur l'origine de l'inégalité parmi les hommes*, *Lettre à d'Alembert sur les spectacles*, *La Nouvelle Héloïse* and *L'Emile*.

Mon., Wed., Fri., at 9

Mlle REVERCHON

23. ALFRED DE MUSSET

"L'enfant chéri du Romantisme" avait tous les dons du poète lyrique, du dramaturge et du conteur. Le cours étudiera sa courte et brillante carrière, et présentera les principaux aspects d'une oeuvre dont le temps n'a pu ternir l'éclat: après plus d'un siècle, Musset touche encore, et vivement, notre esprit et notre coeur.

Au programme: *Les nuits, On ne badine pas avec l'amour, Lorenzaccio*; Choix de *Contes et Nouvelles*.

Tues., Thurs., Sat., at 9

Mme TOUREN-FURNESS

24. ANDRÉ MALRAUX

"C'est Malraux qui le méritait", dit Albert Camus en apprenant qu'on lui avait décerné le Prix Nobel pour 1958. André Malraux, intellectuel et homme d'action, s'est engagé à fond dans l'aventure humaine et, par son exemple comme par ses livres, a exercé une influence décisive sur notre temps. Il a revalorisé l'héroïsme,—seul issue digne de l'homme hors d'un monde tragique.

Textes étudiés et lectures personnelles comprendront, en plus de *Pages Choisies, Les Conquérants* ou *La Voie Royale, La Condition Humaine* ou *L'Espoir*.

Tues., Thurs., Sat. at 10

M. LEMARE

25. FROM BOOK TO STAGE (*Double course*)

This course features 7 plays, 4 classical and 3 modern. Course time will be equally divided between literary analysis of the texts in the lecture-room and practical work with the texts on the stage. In practice, emphasis will be placed on correct elocution and recordings of well-known French actors will be used for demonstration purposes.

Students taking this course will be expected to take part in the final dramatic production of the School and to attend rehearsals as necessary, in the afternoons and evenings. No previous acting experience is required, but a measure of enthusiasm for the theatre and willingness to learn a part are prerequisites.

This course, which carries double credit, is the equivalent of one single *language* and one single *literature* course.

The plays studied will be:

Molière:	<i>Le Malade imaginaire</i>
	<i>Tartuffe</i>
Beaumarchais:	<i>Le Barbier de Séville</i>
A. de Musset:	<i>On ne saurait penser à tout</i>
J. Rostand:	<i>Knock</i>
M. Pagnol:	<i>Marius</i>
J. Anouilh:	<i>La Répétition ou l'Amour puni</i>

Mon., Wed., Fri., at 12 Lecture

M. RABOTIN

at 2:15 Practice

Mme DARIOSECO and
M. RABOTIN

(Douglas Hall Library)

26. LA FRANCE DE 1945 À 1960 (A survey of political, social and economic life).

This course proposes to:

1. Describe the institutions established by the Constitutions of 1946 and 1958.
2. Examine the major political issues faced by successive Governments and Parliaments.
3. Review the main changes which have taken place in the social and economic fabric of France in the last fifteen years.
4. Offer a factual report on recent events in Algeria and within the French Community of Peoples.

The Instructor hopes that a specially-prepared textbook will facilitate the assimilation of facts and figures and the specialized terminology essential to the course.

Tues., Thurs., Sat., at 11

M. LAUNAY

27. CATHÉDRALES ET CHÂTEAUX DE LA LOIRE (French architecture of the Middle Ages and Renaissance periods).

While the many Romanesque and Gothic Cathedrals of France testify to the faith of the people and the skill of the builders, the Châteaux in the Loire Valley embody the more secular approach of the Renaissance.

The course will not be restricted to architectural techniques, but will also deal with the civilization background reflected in the stately structures typical of their times.

Visual material will be used.

Tues., Thurs., Sat., at 11

M. JONES

28. LE TROISIÈME ÂGE D'OR DE LA MUSIQUE FRANÇAISE

C'est la période de 1850 à 1914. L'opéra, l'opéra-comique, la symphonie, la cantate et la mélodie, tous les genres musicaux s'épanouissent, de Berlioz à Ravel.

Ce cours n'exige pas de l'étudiant une connaissance des techniques musicales. Il suffit d'aimer la musique et de désirer en apprendre l'histoire.

Le cours utilisera une grande variété d'enregistrements.

Tues., Thurs., Sat., at 12.15

Mlle GABOURY

(Douglas Hall, Common Room)

SECTION C

Students wishing to qualify for the Certificate must take not less than *five* courses.

M.A. students must take certain courses listed on page 4036.

LANGUAGE COURSES

30(b) FRENCH STYLISTICS

While stylistics is a relatively new province of the vast field of linguistics, experience has shown that students of graduate calibre desirous of writing French with better than textbook accuracy derive great benefit from a serious study of it.

The complexity of the subject would however make a survey of it comparatively useless. Details must be gone into and, for that reason, the substance of the course has been evenly divided between 30(a) and 30(b), both of them full courses offered in alternate years.

30(a) dealing with homonymy, synonymy, comparisons, images, the uses of various figures of speech, and the syntax of informal French, was offered in 1959, and will again appear on the programme of 1961.

30(b)—given in 1960 and to be offered again in 1962—includes a review of the “levels of speech” and an analysis of the means devised by creative writers to clothe their ideas and feelings in a truly artistic and literary garb.

This is a compulsory course for M.A. students. They are required to take both 30(a) and 30(b) over two separate years.

Mon., Wed., Fri., at 9

M. NARDIN

31. ADVANCED COMPOSITION

An intensive seminar in translation from English into French. The passages translated are taken from modern English and American writers. Written work is assigned for each class and will be individually corrected. The size of the class is limited.

Tues., Thurs., Sat. at 9.

Mlle REVERCHON

32. ADVANCED PHONETICS

This course is open to students who have passed course 13 or its equivalent.

Review of the formation of French sounds and the laws governing their occurrence. Dynamics of speech (vocal harmony, assimilation, rhythms, and patterns of intonation).

This course will include the study of texts ranging from everyday familiar French to academic discourse and poetry, in order to bring out the phonetic features of the different levels of speech.

The course is recommended to teachers of French.

Phonograph records for this course will be available at the Practice Laboratory.

Tues., Thurs., Sat., at 12

Mme DARIOSECQ

COURSES IN LITERATURE AND CULTURE

40. LE THÉÂTRE DE 1880 À 1914

L'avant-guerre—l'avant-première-guerre—est "la belle époque" du théâtre qui a toute la faveur d'un public passionné. Sur les scènes parisiennes se succèdent tragédies en vers, drames en prose, comédies, pièces à thèses, tandis que Naturalistes et Symbolistes se livrent des luttes acharnées.

Au programme: des oeuvres de Henri Becque, François de Curel, Paul Hervieu, George de Porto-Riche, Edmond Rostand et Maurice Maeterlinck.

Mar., Jeu., Sam., à 10h.

Mme TOUREN-FURNESS

41. UNE ANNÉE DE LITTÉRATURE FRANÇAISE AUX X^e SIÈCLE: 1922

L'année 1922 marque un tournant dans l'évolution de la littérature et du goût. Valéry publie *Charmes*; Giraudoux, *Siegfried*; Mauriac, *Le Baiser au lèpreux*; Colette, *La Maison de Claudine*; Martin du Gard, les deux premiers volumes des *Thibault*; Lacretelle, *Silberman*; et Romain, *Lucienne*. Cocteau, Morand, Eluard font leur débuts, et Gide, dont les *Morceaux choisis* ont paru l'année précédente, se révèle au grand public.

Mar., Jeu., Sam., à 11h.

M. NARDIN

42. MARCEL PROUST

"Raconter des événements", disait Proust, "c'est faire connaître l'opéra par le livret seulement, mais si j'écrivais un roman je tâcherais de différencier les musiques successives des jours". Ce n'est pas en effet

comme chroniqueur d'une époque que Proust nous intéresse surtout, si curieux et subtil soit son regard, mais comme romancier d'une expérience individuelle, qui, dès la première page du roman, devient immédiatement la nôtre.

Le programme des lectures comprendra: *Du côté de chez Swann* et un choix d'extraits.

Lun., Mer., Ven., à 12h.

Mme LARIVIÈRE

43. LA CINQUIÈME RÉPUBLIQUE

Mai 1958-Mai 1960, deux années d'Histoire très récente, mais mouvementée, au cours desquelles la République parlementaire, deux fois menacée, a subi de profondes modifications.

Le cours s'appuiera sur les textes officiels de la Constitution de 1958, ainsi que sur les ordonnances et les lois organiques qui la complètent. Il examinera l'oeuvre politique, économique et sociale du premier Parlement de la Cinquième République, et l'influence prépondérante exercée par le Général de Gaulle dans tous les domaines.

Mar., Jeu., Sam., à 9h.

M. LAUNAY

44. CENT ANS DE PEINTURE FRANÇAISE: 1860-1960

Parmi les Ecoles, Mouvements et Tendances qui ont abouti à la vogue de l'Art informel d'aujourd'hui, le cours étudiera particulièrement l'Impressionisme, le Cubisme, le Surréalisme et la peinture abstraite. Esthétiques et techniques seront étudiées du point de vue historique. Le cours n'exigera pas de connaissances préalables et utilisera photographies et projections.

Lun., Mer., Ven., à 10h.

M. JONES

50. L'ENSEIGNEMENT DU FRANÇAIS ET SES MÉTHODES

Le cours portera essentiellement sur l'enseignement à des anglophones de la langue parlée. Il examinera les méthodes préconisées par les spécialistes et actuellement en vigueur au Canada et aux Etats-Unis. Il exposera les avantages des méthodes psycho-linguistiques et des appareils à la disposition des enseignants. Il donnera enfin des conseils pratiques appuyés sur l'expérience.

Lun., Mer., Ven., à 11h.

Mlle FÉRAULT

TEXTBOOKS

In order that students may do some reading in advance, titles of books to be discussed in literary courses are indicated in the course description.

However, the titles of the TEXTBOOKS which students will be required to purchase for language and civilization courses are NOT listed.

All TEXTBOOKS published on this continent will be found at the University Book Store. Arrangements have been made for all TEXTBOOKS printed in France to be available at another Bookshop opposite the Campus.

List of TEXTBOOKS will be distributed to students on Registration Day.

All students should bring with them the grammars and dictionaries with which they are familiar.

REGULATIONS FOR THE MASTER OF ARTS DEGREE

1. All work carried on towards an M.A. degree in the French Summer School is under the control and supervision of the Department of French in the Faculty of Graduate Studies of the University.
2. REQUIREMENTS FOR THE MASTER'S DEGREE
 - (a) The student must hold the degree of B.A. from McGill University, or from another institution of recognized standing, with at least second class Honours in French, or the equivalent of second class Honours in French as granted by McGill University—which must include the ability to speak French with some fluency and a sound knowledge of French literature from 1600 to 1950.
 - (b) A student, qualified as in 2(a), must complete four sessions in the Advanced Section of the French Summer School with at least second class standing in the final examinations of each session (i.e. the pass mark for M.A. students is 65%).
 - (c) The student must prepare and present a thesis, written in French, which must be in some measure a contribution to knowledge. Its preparation is carried out under the direction of the French Department.
3. Students applying for admission to the *Section C* of the Summer School, with the intention of proceeding towards the M.A. degree,

should, as soon as possible, have a transcript of their academic record sent for appraisal to the Director of the School.

Students whose records are considered to be the equivalent of the B.A. degree with at least second class Honours in French as granted by McGill University will be notified of their eligibility for future admission to the Faculty of Graduate Studies of the University. At the end of their second session they will be required to register in that Faculty as candidates for the M.A. degree, provided that they have completed the course requirements for the first two sessions.

Students who hold a B.A. degree but whose records are not considered to be the equivalent of the McGill B.A. with at least second class Honours in French may be allowed to make up the deficiency by taking more courses during their third and fourth summer sessions.

M.A. students will not be required to re-register in the Graduate Faculty at the end of the third Summer Session, but will do so at the end of the fourth.

4. In the case of students of Honours standing, the first summer session consists of five courses, the second of four courses, the third of three courses, and the fourth of two courses, each course consisting of three lectures per week. The decreasing number of courses through the four sessions enables the student to devote more time to the preparation of his thesis, which must begin in the third session. Each student works under the guidance of a director of research who is a member of the Summer School Staff. The only listed course which may be taken for credit in more than one session is 51, *Advanced Composition* (see below).

Students may be required to take certain courses which are changed from year to year, and in any case:

30—FRENCH STYLISTICS. Students are advised to take 30(a) during their first or second session, and 30(b) during their third or fourth.

31—ADVANCED COMPOSITION. A minimum mark of 65% must be obtained in the final examination of this course, and the course must be repeated until this requirement has been met. As its material is varied each year, it can be taken a second summer for credit. If taken more than twice, it must then be carried as an extra course.

5. With the approval of the Graduate Faculty, one of the summer sessions, except the first, may be replaced by equivalent work in France or at another French Summer School.

FEES FOR M.A. STUDENTS

1. *School Fees.*

M.A. candidates pay the full sessional fee of \$330 (registration, tuition, room, and board) or \$150 (registration and tuition only) for each summer session during which they take courses.

M.A. candidates who have completed the courses required for the degree but have not completed the thesis, and are attending colloquia, will be charged at the rate for a single regular course.

2. *University Fees.*

The University fee for the M.A. degree is \$500. A credit of \$122.50 is allowed for each session a student spends in *Section C* of the French Summer School. Thus a student who has attended four sessions will be required to pay only \$10.00 when he registers at the office of the Dean of the Faculty of Graduate Studies at the end of his fourth session. If the presentation of the thesis is postponed beyond the May following this registration, the student will pay an additional registration fee of \$10.00 at the beginning of the session in which the thesis is to be presented. Students who obtain their M.A. degree via the French Summer School are excused the "in absentia" fee.

TIMETABLE

Time	SECTION A		SECTION B		SECTION C	
	Monday-Wednesday Friday	Tuesday-Thursday Saturday	Monday-Wednesday Friday	Tuesday-Thursday Saturday	Monday-Wednesday Friday	Tuesday-Thursday Saturday
9	1. Living French	1. Living French	12(a) Phonetics 14(a) Explication de textes 21. La Bruyère et Montesquieu	10(a) Composition and Translation 11(a) Oral practice in self- expression 13(a) Diction 23. Alfred de Musset	30(b) Stylistics	31. Advanced Composition 43. La Cinquième République
10	2. Functional Grammar	5. Modern French Prose	12(b) Phonetics 14(b) Explication de textes 22. Jean-Jacques Rousseau	10(b) Composition and Translation 11(b) Oral practice in self- expression 24. André Malraux	44. La Peinture Française, 1860-1960	
11	3. Everyday words and phrases	4. French speech habits	20. La Fontaine	10(c) Composition and Translation 26. La France de 1945 à 1960 27. Cathédrales et Châteaux	50. Méthodes d'enseignement	41. L'année 1922 en littérature
12	7. The French Folksong (12:15-D.H.)	6. 19th Century French literature	25. From Book to Stage (practice at 2:15)	13(b) Diction 28. Troisième Age d'or de la Musique (12:15-D.H.)	42. Marcel Proust	32. Advanced Phonetics

4039

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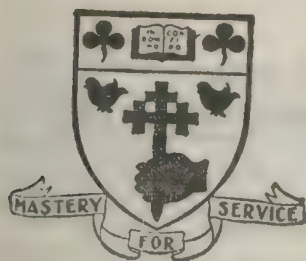
CONVERSATION GROUPS OFTEN PREFER TO MEET ON THE LAWN
(In the background the new University Library)



EVERYBODY SINGS!
(One of the French song groups in afternoon session.)

Macdonald College

McGill University



Faculty of Agriculture
School of Household Science
1960-1961

PUBLICATIONS

The following official publications are issued by the University and may be obtained from the Registrar's Office, McGill University, Montreal 2, Quebec.

Announcements of Faculties and Schools as follows:

General Announcement

School Certificate Examinations

Scholarships, Bursaries, and Loan Funds

Faculty of Arts and Science (Degrees in Liberal Arts and in Pure Science. There is a separate Announcement for the School of Commerce.)

Faculty of Medicine

Faculty of Medicine Postgraduate Courses

Faculty of Dentistry

Faculty of Engineering (Degrees in Engineering and in Architecture.)

Faculty of Law

Faculty of Music

Faculty of Divinity

**Faculty of Graduate Studies and Research*

**Institute of Education*

School of Commerce

Library School

School for Graduate Nurses

School of Physical and Occupational Therapy

School of Social Work

**Macdonald College* (Faculty of Agriculture, School of Household Science.)

French Summer School

Extension Courses

The Directory of Staff (University administrative officers, standing committees, and officers of instruction. Limited distribution.)

The Calendar (Available for distribution only to libraries and officials of certain institutions.)

*These Announcements are also available through the Registrar's Office, Macdonald College.

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DOROTHY A. NICHOL, B.Sc.(Phys.Ed.), *Lecturer in Education (Institute of Education)*

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MARGARET R. STEWART, B.H.S., *Lecturer in Home Economics: Dietitian*

FRANCES ANN TUCKER, B.Sc. (H.Ec.), *Lecturer in Home Economics*

HELEN GEORGINA YOUNG (Mrs. L.G.), B.Sc. (H.Ec.), *Lecturer in Home Economics*

JOHN ERNEST MCKIM YOUNG, B.A. (McMaster), B.Ed., M.A. (Sask.),
Ph.D. (Tor.), *Associate Professor of Education (Institute of Education)*

MACDONALD COLLEGE EXTENSION SERVICE

H. R. C. AVISON, M.A., *Director*

JOHN ELLIOTT, B.Sc.(Agr.), *Agricultural Fieldman*

HANDICRAFT DEPARTMENT

HELENA NEIJZEN, *Instructor*

FRANCES WREN, *Instructor*

McLENNAN TRAVELLING LIBRARY

KATHLEEN CLYNES, *Librarian*

*Many officers of instruction give classes in all divisions of
Macdonald College; their names appear under that division in
which the major portion of their work is done.*

CALENDAR FOR SESSION 1960-61

1960

- August 22nd, Monday. Supplemental examinations begin, B.Sc. (Agr.),
B.Sc. (H.Ec.) courses, and the Institute of
Education Academic courses.
- September 7th, Wednesday. Registration, all years, Institute of Education.
Second and Third year students report for
practice teaching.
- September 8th, Thursday. Lectures begin for the Institute of Education.
- September 10th, Saturday. 9 to 11 A.M. Registration for 4th year B.Sc.
(H.Ec.) Teaching Option.

MACDONALD COLLEGE

- September 12th, Monday* 9 to 12 A.M. Registration Fourth year B.Sc. (Agr.) students taking Agr. Eng. 439, and Second year B.Sc.(H.Ec.).
- September 13th, Tuesday* 9 to 12 A.M. - 2 to 4 P.M. Registration, First year B.Sc.(Agr.) and B.Sc.(H.Ec.).
- September 14th, Wednesday, to* } Freshman Orientation Program—required of
September 17th, Saturday, Incl. } all First year students, B.Sc.(Agr.), B.Sc. (H.Ec.).
- September 15th, Thursday* 9 to 11 A.M.—Registration, Third year, B.Sc. (Agr.)—Agriculture 300a begins—required of all Third year B.Sc.(Agr.) students.
- September 17, Saturday* 9 to 12 A.M. - 2 to 4 P.M., Registration all other years B.Sc.(Agr.), B.Sc.(H.Ec.), Handicrafts course.
- September 19th, Monday* Lectures begin all years, Agriculture, Household Science, Handicrafts courses.
- October 6th, Thursday* Fall Convocation.
- October 10th, Monday* Thanksgiving Day. No classes.
- October 12th, Wednesday* Supplemental examinations begin, Diploma in Agriculture course.
- October 17th, Monday* 9 to 12 A.M. Registration, Diploma in Agriculture course.
- October 18th, Tuesday* Lectures begin, Diploma in Agriculture course.
- November 1st, Tuesday* Annual Assembly, 3:45 P.M.
- December 14th, Wednesday* Last day of Lectures in first term, Agriculture and Household Science.
- December 16th, Friday, to* } First term examination period, B.Sc.(Agr.),
December 22nd, Thursday, Incl. } B.Sc.(H.Ec.).
- December 16th, Friday* Last day of Lectures in first term, Institute of Education.
- December 17th, Saturday, to* } First term examination period, Institute of
December 22nd, Thursday, Incl. } Education.

1961

- January 3rd, Tuesday* Second term begins, Institute of Education.
- January 9th, Monday* Second term begins, Agriculture and Household Science.
- February 10th, Friday* Macdonald College Founder's Day. No afternoon classes. (Sir William C. Macdonald born February 10th, 1831, died June 9th, 1917.)
- February 23rd, Thursday* Macdonald Royal. No classes.
- March 21st, Tuesday* Last day of lectures, Diploma in Agriculture.
- March 22nd, Wednesday* Examinations begin, Diploma in Agriculture.

CALENDAR OF DATES

- March 30th, Thursday* Graduation Exercises, Diploma in Agriculture.
March 31st, Friday, to
April 3rd, Monday, Incl. } Easter vacation.
April 9th, Sunday Baccalaureate Service, 3:00 P.M.
April 14th, Friday Last day of lectures, Agriculture and Household Science.
April 17th, Monday Final examinations begin, B.Sc.(Agr.), B.Sc.(H.Ec.), courses and the Institute of Education Academic courses.
April 29th, Saturday Session ends for B.Sc.(Agr.) and B.Sc.(H.Ec.) students.
May 1st, Monday, to } Practice teaching period, Institute of Education.
May 12th, Friday }
May 17th, Wednesday Examinations begin, First year and all diploma courses, Institute of Education.
May 31st, Wednesday Convocation.
June 4th, Sunday Divine Service, Institute of Education and Handicrafts students.
June 5th, Monday Graduation Exercises, Institute of Education, School of Household Science and Handicrafts students.

Macdonald College

Macdonald College, which was founded and endowed by the late Sir William C. Macdonald, is incorporated with McGill University, and is situated twenty miles west of Montreal, at Ste. Anne de Bellevue, Que. It is composed of the Faculty of Agriculture, which includes the School of Household Science, and of the School for Teachers for the Protestant schools of the Province of Quebec.

FACULTY OF AGRICULTURE

The work of the agricultural departments of the College falls into three main divisions: teaching, research, and extension. Teaching and research form the major part of their work. Extension service is undertaken by departments as the need or opportunity may arise.

Information on extension work under the Macdonald College Extension Service will be found on page 4518.

SCHOOL OF HOUSEHOLD SCIENCE

The School of Household Science is an integral part of the Faculty of Agriculture. The main function of the School is teaching, both in relation to the home and for professional service in institutions.

SCHOOL FOR TEACHERS

The School for Teachers is a School of McGill University, controlled by a committee established under an agreement with the Government of the Province of Quebec. The School is under the jurisdiction of the Institute of Education and the Faculty of Arts and Science, and offers diploma courses for kindergarten, elementary, intermediate and High School teachers. Courses leading to the Bachelor of Education degree are also offered through the Institute. Information on the School for Teachers is included in the announcement of the Institute of Education, issued separately.

THE INSTITUTE OF PARASITOLOGY

The Institute of Parasitology, attached to the Faculty of Graduate Studies and Research, is located at Macdonald College. This Institute is governed by a joint committee of the National Research Council and McGill University, and has, as its main functions, the prosecution of research on animal parasites and the instruction of graduate students.

GENERAL INFORMATION

Ste. Anne de Bellevue, Que., is twenty miles west of Montreal, on the main lines of the Canadian National Railway and the Canadian Pacific Railway, and on provincial highways No. 2 and No. 17. Travellers by air book to the Montreal Airport at Dorval, which is approximately ten miles east of the College. The Anglican Church of Canada, the United Church of Canada and the Roman Catholic Church in Canada all have churches in the town. Students of all religious denominations are free to enter Macdonald College. A branch of the Bank of Montreal serves the community.

The College has its own post office and mail should be addressed simply Macdonald College, Que. The address for freight and express parcels, and for telegrams, is Macdonald College, Ste. Anne de Bellevue, Que.

Key telephone numbers are: Switchboard (connecting all departments) GLendale 3-5335; Brittain Hall, GLendale 3-1828, GLendale 3-1997; Laird Hall, GLendale 3-1830, GLendale 3-1991; Stewart Hall, GLendale 3-1880, GLendale 3-1959; Harrison House, GLendale 3-4407.

FACILITIES

Sir William Macdonald planned so well for future needs that the facilities of Macdonald College for instruction in Agriculture, Home Economics and Teaching are still provided almost entirely in the buildings constructed in 1905. The picturesque brick buildings and red-tile roofs of the Chemistry, Biology, Agriculture and Main Buildings, together with Stewart, Laird and Brittain Halls (residences for women and men), and the well laid out grounds on the shore of Lake St. Louis, combine to provide a campus which is attractive and functional.

Laboratory and lecture rooms are exceptionally well supplied with modern and efficient teaching facilities, while the reference section of the Library and the research laboratories associated with the various science departments are well equipped to permit the vigorous investigation of problems connected with postgraduate studies.

The land associated with the College consists of approximately 1600 acres, at the western end of the Island of Montreal, and is largely in the Parish of Ste. Anne du Bout de l'Ile, Jacques Cartier County. The campus proper consists of about 200 acres south of the Trans Island Boulevard, and contains the Orchard, Horticulture plots and the Poultry ranges. The Stock Farm has good examples of Holstein, Ayrshire and Aberdeen Angus cattle, Cheviot sheep, and Yorkshire hogs. The Agronomy Farm includes the land devoted to the development of new varieties of crops and comparative testing of new varieties and management practices.

The College farm represents a wide variety of the soils of the Ottawa St. Lawrence Valley Lowland, with podzols, brown forest and dark-grey gleizolic (poorly drained) soils, including the Ste. Amable, St. Bernard, Rideau and Ste. Rosalie series.

The Morgan Arboretum established in 1947, has 700 acres of woodland devoted to the study of woodlot management and the place of the woodlot in the Eastern Canadian farm economy. About 100 acres have been planted in reforestation projects. In addition, the Arboretum, in spite of its short history, has Canada's best collection of examples of all Canadian and many foreign species of trees and shrubs of interest from the point of view of pulpwood, timber and landscaping.

THE MACDONALD COLLEGE LIBRARY

The library and reading room are centrally located in the Main Building, occupying the ground floor of an annex leading off the main hall. Seventy-six readers can be accommodated in the reading room, and in a series of alcoves there are reference works and textbooks on the work of the various departments.

The present stack-room has accommodation for about 25,000 volumes, which comprise the best collection of books on the various subjects included in the curriculum of the College.

The Walter M. Stewart Collection includes biography, history, travel science, etc. This collection has been purchased through the generosity of Walter M. Stewart, of Montreal.

MACDONALD COLLEGE EXTENSION SERVICES

Departmental Services: — The services of the various departments of Macdonald College are always available for the advancement of the agricultural and home interests of the Province of Quebec. Personal interviews at the College and correspondence are invited.

Extension Service: — The College functions through the Extension Service in providing a programme primarily for rural residents. The service consists of:

Information Service. — College Departments welcome requests for information on subjects relating to Agriculture, Home Economics and Education.

A library of program materials, books, pamphlets, study outlines, etc. is available to all kinds of community organizations, as well as to individuals. The film library has a comprehensive collection of over 900 film titles, under the following subject headings: Agriculture; Citizenship and the

GENERAL INFORMATION

Community; Creative Arts; Geography and Travel; Health and Welfare; Industry and Labour; Science, Resources and Wildlife; Sociology; Sports and Recreation; Transportation and Communication; World Affairs. These films (in English) are available for educational purposes at a nominal rental. A catalogue is available upon request.

Handicraft Department offers instruction to regular day students and also conducts evening classes in weaving, leatherwork, and woodwork.

Instructors in the department are available for short courses away from the College as time permits.

McLennan Travelling Libraries, McGill University, offer a library service to schools and community organizations. Boxes of fifty books are loaned for four months at a moderate charge. A bookmobile serves communities south of the St. Lawrence River on a monthly schedule.

Macdonald Farm Journal, a monthly publication for English-speaking farmers dealing with matters of agricultural interest in popular articles, written by members of Macdonald College staff and other contributors.

Evening Courses in a wide variety of subjects including home gardening and landscaping, public speaking, dressmaking, music, etc., are offered to adult citizens within travelling distance of Macdonald College during the fall and winter term.

The College also co-operates with the Quebec Council of Community Programmes in supervising and assisting adult night schools in a number of English-speaking centres of the province. Courses are offered in a wide variety of subjects ranging from agriculture, cooking, sewing, and handicrafts to public speaking, dramatics, and French conversation.

For further information about these activities, write to the Extension Service, Macdonald College, P.Q.

Visits to the College from individuals or groups with a common interest in the farm, the home, or the school, are always welcomed. However, in view of the present large registration and the somewhat limited facilities, it is often regrettably necessary to curtail visits at times when the student population is largest.

Groups of fifteen or more requiring meals and/or rooms are asked to give two weeks' advance notice and to confirm the numbers in the group not later than three days before arrival. All requests for visiting privileges should be addressed to The Secretary, Macdonald College, P.Q., who will be pleased to quote rates for meals and rooms, if required.

HANDICRAFTS

Macdonald College offers an eight-months course in general handicrafts, which gives theoretical and practical training in a variety of arts and crafts.

Weaving and leather-working are the main divisions of the course. In the weaving portion, once the fundamentals of using the various types of loom have been mastered, the students are given the opportunity of designing special patterns, which they then weave into cloth for making such articles as tablecloths, luncheon sets, skirt material, etc. Belts, lampshades, and tartan scarves are but a few of the other items which are woven during the course.

In leather-working, all designs are again original, from the simplest change purse to elaborately carved book covers or desk sets. Although most attention is paid to these two crafts, instruction is also given in creative crafts, metal-working, wood-working, whittling, and lino-block printing.

On completion of the course the student is equipped to teach handicrafts in hospitals, recreation centres, summer camps, etc., and it is also a splendid course for art teachers in public schools. Many graduates are now employed in this type of work; others are operating their own studios or workshops in all parts of Canada.

Junior Matriculation or its equivalent is required for admission. For full information and an application form write to the Handicrafts Department, Macdonald College, Que.

ADMISSION

The general requirements for admission are on page 4533. Details of the admission requirements for the various courses are on pages 4534, 4592, 4604.

CLASSES OF STUDENTS

1. *Regular Undergraduates* are students with complete matriculation qualifications and who are taking the regular work of their year toward the appropriate degree or diploma.
2. *Limited Undergraduates* are students with normal entrance qualifications but who, due to ill health or other circumstances, do not fit into the regular classification of years (first, second, etc.) and who may be unable to complete their work in the normal length of time.
3. *Partial Students* are those not proceeding to a degree or diploma, including those doing a qualifying year for graduate work, or those earning credits for transfer to another faculty or institution.

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4. *Conditioned Students* are students who have failed courses of the previous year, but who are not required to repeat the year. They may be registered as conditioned students in the next year, being required to repeat all failed courses of the previous year, and take such other courses as do not involve time-table conflicts.

Conditioned students are on academic probation, and may be required to withdraw if their work continues to be unsatisfactory.

5. *Repeating Students* are those students who, because of failures, are required to repeat their year. They are on academic probation, and may be required to withdraw if their work continues to be unsatisfactory. Repeating students are not eligible to hold student offices.

REGISTRATION

Students are required to register at the times indicated in the calendar for the course and year for which they have been accepted, and before entering residence to obtain a residence card from the Secretary's Office. Registration at a later date is permitted only to those who obtain the consent of the Dean or Director of the Faculty or School concerned.

All students entering the First year of the B.Sc. (Agr.) and of the B.Sc. (H.Ec.) course for the first time are required to register one week in advance of upper classmen. This period is devoted to a programme of orientation, in which efforts are made to impress on these students the significance and consequences of their new way of life, to familiarize them with their physical and cultural surroundings, and to acquaint them with the scope of the various fields of learning at the College. Attendance at all sessions of Freshman Orientation Week is compulsory.

Upon registering students are required to sign the following declaration:—"I hereby accept and submit myself to the rules and regulations of Macdonald College, and of the Faculty or School thereof in which I am registered, and to any amendments thereto which may be made while I am a student of the College, and I promise to observe the same."

Students are not permitted to enter any class until they have registered.

RESIDENCE

Men students in residence live in Brittain Hall, named in honour of Dr. W. H. Brittain, Vice-principal of Macdonald College from 1935 to 1955. The residences for women are Stewart Hall named in honour of Mr. and Mrs. Walter M. Stewart, long-time friends and benefactors of the College, and Laird Hall, named in honour of the late Dr. Sinclair Laird, former Director of the School for Teachers.

Macdonald College does not have residence accommodation for all the students who enroll, and acceptance of the application for admission to a course of study does not imply that residence accommodation will be available.

Any student wishing to live in one of the College residences must apply to the Deputy Warden for residence accommodation well in advance of the opening of the session. Forms of application for residence accommodation are sent with letters of acceptance.

A deposit of \$25.00 must accompany the application for accommodation. If the application is accepted the deposit will be deducted from the payment due on entrance. The College guarantees to refund the deposit if the application is refused, or is cancelled by the applicant at least three weeks prior to the date of registration for the course concerned.

All students who have been in residence during the session must apply for re-admission for the following year, and make a deposit of \$25.00, before leaving at the end of the session, should they wish to have space reserved for them. This deposit will be refunded if the application is not accepted, or is cancelled by the applicant three weeks prior to the date of registration for the course in which he or she is enrolled. If the application is accepted, the deposit will be deducted from the payment due on entrance. In the event that there is a shortage of residence accommodation, rooms will be assigned first to students whose homes are off the island of Montreal. Preference will be given also to women students enrolled in degree courses rather than diploma courses.

A number of rooms are available in private homes in Ste. Anne de Bellevue; a list of these may be obtained from the Registrar's Office. Most are located within a few minutes' walk of the College. Students rooming out may have all their meals in the College dining room and participate fully in all regular College activities.

All students, whether living in residence or not, are registered in one or other of the Halls of Residence, as well as in their respective Faculties or Schools.

Due to the necessity of accommodating conventions and short courses during the summer months, resulting in a limited time available for repairs and cleaning, no student will be admitted to residence before the date set for registration in the course for which he or she has been accepted. Exceptions to this rule will be made in the case of certain student officers whose duties require their presence before the opening date, members of the football team who have been accepted for pre-season training, students preparing for supplemental examinations and other students under exceptional circumstances by permission of the Warden.

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Only students who are employed by the College may remain in residence during the summer months, and this with permission of the Warden. For the Christmas holiday period see page 4528.

Students who have reserved accommodation and who are returning early to write, or prepare for, supplemental examinations, may enter residence, by special permission, not earlier than one week before the date of their first examination. Application for early accommodation must be sent with the application for supplemental examination, before September 1st. The charge for room and board for this period will be \$16.00 for a week or any part of a week.

No other student may enter residence before the date of registration. Students from a distance must not expect to be admitted early unless exceptional circumstances warrant it, and permission has been requested, and granted by the Registrar, before the student leaves home. This privilege is granted only to new students coming from a distance who are not familiar with the Montreal area. It will not be extended to returning students in the upper classes.

Students may not invite relatives or friends to stay overnight in the residence without permission from the Warden of Residence.

For the admission of visitors to the Dining Room tickets must be purchased at the Dietitian's Office, Stewart Hall, at the Administration Office in the Main Building, or from the doorman on duty.

Students are held responsible for the care of their rooms and of their furnishings.

Students are recommended to mark clearly, before coming to the College, all articles of wearing apparel, sheets, pillow cases, etc.

Detailed regulations are printed separately and issued to students after arrival.

ROOM FURNISHINGS

Bedrooms are furnished with closets, beds, mattresses, blankets, pillows, and the necessary furniture.

Each student is expected to provide his or her own laundry bag, toilet soap, drinking glass, four sheets, about 90 inches long, 60 inches wide; two pillow covers, 34 inches long, 20 inches wide; hand towels and bath towels; flashlight.

Students may bring rugs, pictures, etc., but are not allowed to drive tacks or nails into walls or woodwork, nor to paste pictures on the walls.

Women students are required to provide sash curtains and curtain rods for the windows in their rooms. Each window is provided with curtain cranes, and students may bring and hang drapes if they wish.

CONDUCT AND ATTENDANCE

The general responsibility for the maintenance of discipline in each residence is vested in a Warden, but, through a system of self-government, students are encouraged to accept the greatest possible amount of responsibility in connection with their own affairs. Enforcement of necessary regulations, exaction of disciplinary measures, and regulation of conduct *in and out of residence*, is largely in the hands of a House Committee for each residence, elected by the students from among their own number.

Matters of discipline connected with or arising from the general arrangement for teaching within a Faculty or School are under the jurisdiction of the Dean of the Faculty or Director of the School concerned.

Students may be admonished by a professor or instructor for improper conduct and may be reported to the Dean or Director concerned. If considered advisable, such conduct shall be reported to parents or guardians.

Students found guilty of immoral, dishonest, or other improper conduct, the violation of rules, or wilfully causing damage to persons or property, shall be liable to College discipline, which includes the power of expulsion (subject to the approval of the Senate of McGill University), of suspension from classes or residence, (also in the case of women students, confinement to residence), of exclusion from all College functions, including class or society meetings, plays, dances, etc., of disqualification from competing for honours or prizes, and of levying fines. Fines may also be imposed or assessments made for damages made by individuals or groups of students.

Bringing liquor into the College is considered a serious breach of discipline, and students who indulge in the use of liquor, or who frequent places where it is sold, may be required to withdraw from the College.

Students are not permitted to bring firearms into their rooms, nor is the use of firearms allowed on the College grounds.

Undergraduate students while registered at the College are forbidden to go on the river—winter or summer. "Hitchhiking" is forbidden for both students in residence and for students who are commuting.

Gambling is not permitted on College property.

Unauthorized entrance to Stewart Hall or subsidiary residences by men students, or to Brittain Hall by women students, will result in immediate suspension of the guilty persons, followed by expulsion proceedings.

CONDUCT AND ATTENDANCE

Students are requested not to make application for additional leave either before or after holiday periods, as such leaves can only be granted in case of illness or other exceptional circumstances.

For absence from classes on the last day before or the first day following a holiday period, there will be a penalty of \$3.00 for each day or part of a day.

During illness students are under the direction of the Medical Officer and may not leave the residence or infirmary without his permission.

Punctual attendance at all classes, laboratory periods, tests, etc., is expected of all students. Absences can only be excused on the ground of necessity or illness, of which proof may be required. Special attention is called to the fact that the completion of all laboratory work is obligatory and the opportunity to make up work missed can only be provided in the case of properly excused absences.

The Faculty has the power to refuse examinations to those students who persist in absenting themselves from classes without permission.

Any student who is unwilling to submit cheerfully to the restrictions of college life, whose conduct does not furnish satisfactory evidence of diligence and earnestness of purpose, or whose work is definitely unsatisfactory, may be placed on probation, or may be required to withdraw from the college.

DISCIPLINARY (OR CONDUCT) PROBATION

Students who transgress the rules of conduct as laid down by the College authorities, or who behave in an offensive or unbecoming manner, may be placed by the Faculty on Conduct probation. Such probation will normally continue for the remaining years in College of the individual concerned. While on Conduct probation, a student is on trial, and may, for further offenses, be recommended to the Senate for expulsion, or other formal disciplinary action.

STUDENT COUNSELLING

In order to encourage a closer relationship between students and staff members than can be achieved through normal classroom contacts, a system of student counselling is in operation at the College.

At the beginning of the session each student in the First and Second years of the B.Sc.(Agr.) course is assigned, for counselling, to a staff member who is not one of his or her regular instructors. The counsellor is available for help and advice at all times throughout the session, and acts as a friend to whom the student can turn with problems, and who can act on his or her behalf when necessary. Furthermore, the counsellor, dealing as he does with a small group, acquires a better understanding of

the problems of the students, and becomes sufficiently well acquainted with each student who comes to him for counselling to provide references for employment and other purposes. Department Chairmen normally act as counsellors for Third and Fourth year students.

With some modification in details, a similar system is in operation for B.Sc.(H.Ec.) students.

LEAVE OF ABSENCE

WOMEN STUDENTS

In order to avail themselves of leave privileges, women students in residence must present at the beginning of the session a form signed by parent or guardian giving general permission or specifying the manner in which leave may be spent. Forms for this purpose, and details of leave allowances, are sent to all students.

The amount of leave permitted is based on the student's year. A student is entitled to the leaves accorded those in her year only while in good academic standing. Conditioned students in the Second, Third or Fourth year have the allowances granted to the year below.

Except in cases of emergency, telephone messages or telegrams requesting leave of absence for women students will receive no consideration.

Students wishing to stay at hotels, lodges, etc., while on leave, or to go on skiing trips, are required to have the written consent of their parents to do so.

On no account shall a student be absent from college without having complied with the regulations regarding registration of leaves, or without the knowledge and consent of the Warden. Absence from College without permission is a serious offence which renders the student liable to instant suspension or dismissal. If prevented from returning after an absence, due to illness or other cause, students must advise the Warden immediately, and these students must report to the Warden's office immediately upon their return.

Students are urged to have dental work attended to before entrance, though dental appointments will be allowed in cases of urgency. Appointments to visit a physician are allowed on production of a letter from the physician indicating the date and hour of the appointment.

All correspondence regarding the conduct of women students in residence should be addressed to The Director of Women's Residences, Macdonald College, P.Q.

MEN STUDENTS

First Year Diploma and Degree students must obtain permission from the Warden should they wish to have overnight leave of absence. All students who expect to be absent from the College should leave some record of their movements.

VISITORS

Women students in residence may receive visitors any day between the hours of 4.00 and 6.00 p.m. and from 7.00 until 9.00 p.m., and at any time up to 11.45 p.m. on Saturdays. Visitors may be shown over the Residence only on Saturdays, except in the case of parents or friends from a distance. Guests may be entertained in the Reception Rooms and the Common Room; only parents and women friends may be shown students' bedrooms.

Women visitors to Brittain Hall may be entertained in the Reception Rooms only.

MUSIC

Music finds a place in the recreative and social activities of the College. Concerts, organ recitals, lectures, etc., will be given from time to time. It is suggested that those having musical instruments should bring them.

FEES

The College reserves the right to make changes without notice in its published scale of tuition, board and room, and other fees. Fees are not refundable except under special conditions as described below.

I. TUITION FEES. These fees include all the regular charges for registration, tuition, laboratories, libraries, health service, student activities, etc.

REGULAR UNDERGRADUATES

B.Sc.(Agr.) Course.....	\$285.00
B.Sc.(H.Ec.) Course.....	285.00
Diploma Course in Agriculture	
(a) Children of farmers of the Province of Quebec, the Ottawa Valley in Ontario, and the Maritime Provinces..	35.00
(b) All others.....	250.00
Handicrafts Course.....	375.00

LIMITED UNDERGRADUATES

Per unit of instruction (1 lecture or 1 laboratory period per week per term).....	25.00
(Minimum per session \$100.00; maximum per session, B.Sc. (Agr.), B.Sc.(H.Ec.) \$285.00; Diploma Course in Agriculture \$250.00)	

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PARTIAL STUDENTS

Per unit of instruction	25.00
(Minimum per session \$100.00)	

II. SPECIAL FEES AND PENALTIES

Late registration (unless excused by the Dean)	5.00
Late registration after first week	10.00
Late payment (after specified date)	2.00
Conferring degree <i>in absentia</i>	10.00
Duplicate diploma	10.00
Transcript of record	1.00
Re-reading examination paper	10.00
Supplemental examination, per paper	10.00

III. STUDENT ACTIVITY FEE

There are various student activities at the College, such as the athletic associations, literary and debating society, publications, class societies, etc. which the students are expected to support. The affairs of these organizations are in the hands of the students themselves and their operations are financed from a student activity fee of \$26.00 which is included in the tuition fee listed above. The student activity fee is distributed as follows: Students' Council general funds \$1.50; students' recreation centre \$1.00; accident insurance \$2.50; student organizations \$21.00.

IV. BOARD AND RESIDENCE (per session, exclusive of the Christmas holidays)

B.Sc.(Agr.) Course	\$465.00
B.Sc.(H.Ec.) Course	465.00
Diploma Course in Agriculture	320.00
Handicrafts Course	515.00

Students are not encouraged to remain in residence during the Christmas holidays. If, however, due to exceptional circumstances, special permission to remain in residence has been obtained from the Warden, the cost for room and board for this period will be \$16.00 for a week or any part of a week.

SINGLE ROOMS

There are a few single rooms available in each residence. In the case of B.Sc.(Agr.) and B.Sc.(H.Ec.) students an additional charge of \$60.00 for the session will be made for these rooms.

REGULATIONS CONCERNING PAYMENT, AND REMISSION, OF FEES

1. Fees for tuition and for board and residence are due and payable at the Accounting Office at the time of registration. A late fee of \$2.00 is charged for payment after the specified dates, and no additional days of grace are allowed.

2. The College does not issue bills for fees.

3. Fees may be paid in two instalments, one at the beginning of the session, and one on January 15th following. In such case an instalment fee of \$5.00 is charged. First instalment—one half of the total fees plus \$2.50 instalment fee, less deposits already paid. Second instalment—balance of total fees plus \$2.50 instalment fee.

More extended terms of payment may be arranged, where necessary, with the permission of the Secretary. In special cases of hardship, application may be made for financial assistance. See section on Bursaries and Loan Funds, page 4622.

4. A list of the registered students whose accounts with the Secretary are in arrears will be sent to the Dean or Director of the Faculty or School concerned, on receipt of which the Dean or Director shall suspend these students from attendance; they will not be readmitted to classes until the account is settled, or a satisfactory arrangement is made with the Secretary.

5. Students who have fees or other accounts outstanding at the end of the session will not be entitled to receive their marks or to have them sent to third parties, until these accounts are paid.

6. A student who withdraws from the College during the course of the academic year must cancel his registration at the Registrar's Office, and, if in residence, return his meal ticket and residence card to the Secretary's Office.

7. In the case of students who, in spite of the fact that they leave the College before the end of the academic year, receive full credit for the year towards their degree, there shall be no refund of tuition fees.

8. In the case of students who leave during the academic year and do not receive credit beyond the period of their attendance, tuition fees shall be remitted on the basis that half of the annual fees shall be remitted to a student who leaves prior to the beginning of the second term.

9. No tuition fees shall be refunded for any term during which the student has attended classes, even though he leaves before the term has finished.

10. Residence fees are payable for the full academic year and will not be refunded, except in special circumstances.

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11. The Dining Room portion of the residence fees is refundable in special circumstances to students who leave the College permanently during the session.

Avoidable breakage or damage to College property or equipment by a student, is charged to him on receipt of a report from the Chairman of the department concerned.

The Administration Office is open to receive payments from 9 a.m. to 4.30 p.m. daily—except Saturday, on which day the hours are from 9 a.m. to 12 noon.

All cheques, money orders, etc., should be drawn to the order of "The Secretary, Macdonald College," and should be made payable at par.

LAUNDRY SERVICE

Weekly laundry service at moderate prices is provided by a Montreal laundry to which students may send their personal washing, sheets, pillow covers, and towels. Printed lists will be furnished, two copies of which, properly filled out, must accompany each parcel. Fully equipped laundry rooms are also provided in each residence for students' use.

HEALTH SERVICE

The College Health Service provides medical examinations for all men and women students at the beginning of each session. The examination for students entering for the first time includes a complete clinical check, together with an X-ray of chest and routine laboratory procedures. Students who fail to comply with this requirement by November 1st in any academic year will be subject to a fine of five dollars, and students who fail to comply with it by November 15th will be suspended from membership of the University.

Medical and nursing attendance, major operations and illness excepted, will be provided to all students while in attendance at the College. During illness students are under the direction of the Medical Officer and may not leave the residence or infirmary without his permission.

The Health Service provides treatment for minor illnesses or accidents. Students requiring medical attention should report to the infirmary in the first place. It is not the function of the Health Service to undertake the care of serious cases beyond the initial diagnosis and emergency treatment. When necessary the patient will be referred to the physician or surgeon of his choice or to the public service of designated hospitals. The cost of such services is then the student's responsibility, subject, however, to the stipulations contained in the following paragraph.

If a student's admission to a city hospital is ordered by the College Medical Officer, one half of all public ward charges is paid by the College, provided that the total obligation assumed by the College does not exceed \$125.00 in any one session for any one student. Should a student desire private accommodation, the difference in cost must be borne by him. The student should pay the hospital and when discharged should present the receipt and hospital statement to the Secretary's office.

This contribution towards hospital expenses is made only when the illness or other condition requiring hospital treatment was not present or was unknown or undetected at the time of admission.

The families of out-of-town students will be notified of any serious illness, and the action of the Health Service will be guided by their wishes or the advice of their family doctor.

Students entering the University are presumed to be in good health. If they are not, a statement to the contrary should be furnished to the Health Service before registration in the University is completed.

The University is not responsible for damages of any kind resulting from accidents or athletic injuries which may occur, nor for the medical or hospital expenses incurred by any person suffering an accident or athletic injury. In the case of injuries which occur during intercollegiate or intramural competition in athletics or in preparation therefor, the Health Service will render treatment, including hospitalization, if necessary, but any hospital expense in connection therewith shall be limited to the same maximum amount and conditions as in the case of hospitalization for illness. If circumstances appear to justify such action, the Director of the Department of Athletics, Physical Education, and Recreation may authorize additional services or contributions towards such cost.

During the session, all students are covered by a group accident insurance policy, the premium for which is included in the student activity fee. A folder explaining the schedule of hospital and other benefits to which he is entitled is given to each student at registration. On return to the College from being in hospital as result of an accident students should report to the Secretary's Office at once to complete the necessary claim form. The benefits of this group accident insurance policy are payable in addition to any other benefits to which the student may be entitled.

All students entering the University for the first time are required to present a certificate, or other satisfactory evidence, of successful vaccination against smallpox.

BOOKS

The prescribed textbooks, and classroom and laboratory supplies, may be purchased at the College Book Shop.

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HOUSEHOLD SCIENCE TRIPS

Students in Household Science are taken to visit various institutions in connection with their work, from time to time during their course, more especially in the senior years. Each student is responsible for her own expenses, which are kept to the minimum amount.

SUPPLIES

Material and supplies required for classes in Textiles and Clothing are provided by the students concerned and purchased at the direction of the instructor.

OUTFIT REQUIREMENTS FOR WOMEN STUDENTS

SCHOOL OF HOUSEHOLD SCIENCE:—No uniforms are required in the First year of the B.Sc.(H.Ec.) course. Students in the Second, Third, or Fourth year of the B.Sc.(H.Ec.) course will be advised of the uniform requirements on acceptance or promotion.

GYMNASTIC COSTUME

Women students taking work in the gymnasium are required to wear the regulation gymnastic costume consisting of a tunic, teddy blouse, briefs, and short, white woollen socks and running shoes. The tunic, blouse, and briefs must be bought at the College; the current prices are \$5.00, \$2.25 and \$1.00, respectively.

Students wishing to swim must provide themselves with bathing suits.

Faculty of Agriculture and School of Household Science

The following courses of study are offered by the Faculty of Agriculture and the School of Household Science:

I. Courses in Agriculture:

Bachelor of Science in Agriculture [B.Sc.(Agr.)]

A four-year course from junior matriculation leading to professional qualification in agricultural science, or in one of its specialized branches (page 4534).

The Diploma Course in Agriculture

A two-year practical course in farming, with the emphasis on training farmers' sons so that they may develop into "master farmers" (page 4592).

Postgraduate courses in Agricultural Science

These lead to the degrees of Master of Science and Doctor of Philosophy, with study and research in one or more of the Departments of the Faculty. The course of studies and examinations are controlled by the Faculty of Graduate Studies and Research (page 4591).

II. Courses in Household Science:

Bachelor of Science in Home Economics [B.Sc.(H.Ec.)]

A four-year course from junior matriculation leading to the professional qualifications necessary for dietetics or home economics education (page 4603).

III. Agricultural Specialist Teaching Certificate:

A one-year course offered in collaboration with the Institute of Education, for those holding the B.Sc.(Agr.) and intending to qualify themselves for the teaching profession (page 4590).

GENERAL ENTRANCE REQUIREMENTS

All candidates for admission:

1. Must have passed their seventeenth birthday except under special circumstances, and then only with express permission.
2. Must furnish medical certificate of physical health on forms supplied by the College. All students entering the University for the first time are required to present a certificate, or other satisfactory evidence, of successful vaccination against smallpox.

B.Sc.(Agr.) Curriculum

This is a four-year course of study leading to the degree of Bachelor of Science in Agriculture; the degree when abbreviated is designated B.Sc.(Agr.).

The curriculum is organized with equal standards and similar plans to those of the other faculties of the University. During the first two years the work undertaken is common to all students and is limited to subjects which are basic in the study of all branches of agriculture. In the Third and Fourth years the student may specialize in a single branch of agriculture, or, in special cases, he may choose a combination of related subjects. In either case the outline of work must offer a comprehensive training in the major work and cognate subjects.

ENTRANCE REQUIREMENTS

1. It is the desire of the Faculty to admit to the B.Sc.(Agr.) course only those candidates who intend to pursue a career in agriculture and who possess qualities of character and intellect which indicate their adaptability to an academic environment.

2. General Entrance requirements have been set out on page 4533.

3. *Academic requirements:* Admission is at the discretion of a faculty committee. The committee accepts as a general standard the McGill School Certificate. The minimum requirement for consideration under this Certificate is that the candidate must have passed (obtained 50 per cent or more) in each of the subjects specified below, with a minimum of 10 papers. An average standing of not less than 65% in the 10 papers is required.

Papers	Required Subjects
1	English Literature
1	English Composition
1	History
1	Elementary Algebra
1	Elementary Geometry
	plus the following
1	One of Physics, Chemistry, or Biology
2	Two papers (i.e. Oral and Written) or Grammar and Composition in one of French, Latin, German, Spanish

- 2 Two additional papers chosen from
- (a) the foreign language not already chosen
 - (b) the sciences not already chosen, i.e., Physics, Chemistry, Biology.
 - (c) Intermediate Algebra, Trigonometry, Art, Geography, Agriculture, North American Literature.

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The following certificates are accepted in lieu of the McGill Junior School Certificate provided:

1. The certificate has been obtained under no easier conditions than those applying to the McGill Junior School Certificate; and
2. The subjects presented and the average standing obtained on such certificates conform generally to those listed above for the McGill Junior School Certificate:

Quebec: The High School Leaving Certificate
The Catholic High School Leaving Certificate

Ontario: Grade XII Certificate (including a statement of marks received in both Grades XI and XII.)

British Columbia and New Brunswick: Junior Matriculation

Alberta, Manitoba, Newfoundland, Nova Scotia and Saskatchewan: Grade XI Certificate.

Prince Edward Island: Second Year Certificate of Prince of Wales College.

United States: Certificates issued by the College Entrance Examination Board.

United Kingdom: For the General Certificate of Education, a minimum of passes in five acceptable subjects at the Ordinary level, including English and Mathematics; for the School Certificate, credit or higher standing in at least five acceptable subjects including English, Mathematics, a foreign language.

Students intending to enter by certificate should in no circumstances come to the College without having obtained from the Registrar a statement of the value of the certificates they hold.

Students with incomplete requirements may obtain standing in subjects included in the McGill School Certificate by writing McGill examinations.

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A candidate may be admitted to the Second year if (1) he has completed all requirements for entrance to the First year and (2) has written and passed with acceptable standing the required papers of the McGill Senior School Certificate Examination. These are:

English Literature
English Composition
Algebra
Trigonometry
Physics
Chemistry
Approved Elective*

*Students without acceptable standing in Biology may be required to take Biology as an extra course in the Second year.

The following certificates are accepted in lieu of the McGill Senior School Certificate:

Quebec: Senior Quebec High School Leaving Certificate
Senior Catholic High School Leaving Certificate

Ontario: Grade XIII Certificate

Alberta, Manitoba, Nova Scotia and Saskatchewan: Grade XII Certificate

Prince Edward Island: Third Year Certificate of Prince of Wales College

British Columbia: Senior Matriculation Certificate

United Kingdom: For the General Certificate, passes in five subjects at Ordinary Level, plus Physics and Chemistry at Advanced Level.

NON-CANADIAN STUDENTS

Applications for admission from students whose homes are outside Canada must be received before March 1st of any year if they are to be considered for acceptance for that calendar year. No decisions on these applications will be made by the Committee on Admissions before March 1st, and the applicant will be notified whether or not his application is accepted as soon after that date as possible.

ASSOCIATED COLLEGES

By special agreement, Prince of Wales College, Charlottetown, P.E.I. and the Nova Scotia Agricultural College, Truro, N.S., have arranged to provide their students with a course of study substantially equivalent to the first two years in Agriculture at Macdonald College. Students who have completed such a course of study with satisfactory standing in courses equivalent to those of the first two years of the B.Sc. (Agr.) curriculum, will be admitted to the third year at Macdonald College, provided that their overall averages, and their grades in individual courses are considered satisfactory by the Committee on Admissions.

By special arrangement with the Ontario Veterinary College, students who have successfully completed the first two years of the B.Sc.(Agr.) course at Macdonald College will be admitted to the second year at the Ontario Veterinary College, Guelph, Ont. This course starts about the middle of September each year.

PERMISSION TO STUDY

Candidates for admission to the Degree Course in Agriculture who intend to practise as professional agriculturists in the Province of Quebec must obtain approval of their application from La Corporation des Agronomes before beginning the course. Forms of application for Permission to Study and full particulars may be obtained from La Corporation des Agronomes de la Province de Quebec, Room 410, 10 St. James St. W., Montreal, or from the Registrar, Macdonald College.

Failure to comply with the regulations of the Corporation may cause a delay of a year or more before the candidate can be legally authorized to practise his profession in the Province of Quebec. Application for permission to study must be made before August 1st, 1959.

COURSE REQUIREMENTS

The requirements for graduation are:—

(a) Pass standing in all courses of the First and Second years, as outlined below.

(b) Pass standing in the Third and Fourth year courses equivalent to a minimum of 11 courses. In addition all students upon entering their Third year are required to take and complete successfully Agriculture 300a.

(c) Satisfactory distribution and concentration of courses:—See *Courses of Study* below.

(d) *Practical experience.* Satisfactory fulfilment of regulations concerning practical and professional experience, as below.

At least one season of farm experience is essential for admission to certain options in agriculture. Students who have not secured such experience by the beginning of the Third year may find themselves ineligible for admission to these options. In the case of students from outside Canada, this experience is best obtained in the country from which the student comes.

Students majoring in Agronomy are required to spend one summer in the Agronomy Department at the College, or at some other approved college or experimental farm. This may be between the Second and Third, or the Third and Fourth years. Students having extensive farm experience as a background are likely to find a wider range of opportunities for employment in the agronomic field.

Students majoring in Agricultural Engineering are required to have at least one season of farm experience and to work for a summer in some phase of agricultural engineering work approved by the Agricultural Engineering Department.

Students entering the Animal Husbandry option are required to present satisfactory evidence of having worked for a total of at least twelve months on a livestock farm.

Students entering the General Agriculture option are required to have spent at least twelve consecutive months on an approved farm.

Students majoring in Horticulture are required to spend one summer in the Horticulture Department at the College, or at some approved vegetable farm, fruit farm, or nursery.

Students majoring in Entomology, General Biology or Plant Pathology are required to spend one summer in field or laboratory work, either at the College under the direction of the department concerned, or in one of the Government laboratories, or in some other place approved by the department concerned.

Students majoring in Poultry Husbandry are required to work for a summer on a poultry farm approved by the Poultry Husbandry Department.

No summer work or practical experience requirements need be met in the case of students majoring in Agricultural Bacteriology, Agricultural Chemistry or Agricultural Economics.

SYLLABUS

B.Sc. (AGR.) COURSE

SUBJECTS	Course Numbers	Unit Value	Periods per week		Term Given
			Lects.	Labs.	
FIRST YEAR					
Agriculture: General Agriculture.....	110	6	2	1	Both
Biology: General Biology.....	120	10	3	2	Both
Chemistry: Inorganic Chemistry.....	110	10	3	2	Both
English: Composition.....	114	4	1	1	Both
Literature.....	116	4	2	..	Both
Mathematics: Plane Trigonometry and Algebra....	110	6	3	..	Both
Physics: General Physics.....	112	8	3	1	Both
SECOND YEAR					
Agriculture: General Agriculture.....	220	6	2	1	Both
Botany: Intermediate Botany.....	210b	4	2	2	Second 1961-62
Chemistry: Organic Chemistry.....	220	10	3	2	Both
Economics: Elementary Principles.....	220b	3	3	..	Second
*English: Modern Literature.....	225	4	2	..	Both
or Speaking and Writing.....	226	4	2	..	First
	...	..	1	1	Second
Mathematics: Calculus.....	220	6	3	..	Both
Physics: General Physics.....	222	8	3	1	Both
Zoology: General Zoology.....	220	8	2	2	Both 1960-61
Intermediate Zoology.....	230a	4	2	2	First 1961-62

*Second year students must take either English 225 or English 226.

See also elective courses in French and History, pages 4580-1.

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SYLLABUS
B.Sc. (AGR.) COURSE
THIRD AND FOURTH YEARS

SUBJECTS	Course Nos.	Unit Value	Periods per week		Term Given	Session offered (if alternating)
			Lecta.	Laba.		
Agriculture.....	300a	1	..	..	First	
Agricultural Engineering:						
Descriptive Geometry.....	330	4	1	1	Both	
Farm Machinery.....	333a	4	2	2	First	
Farm Power Machinery.....	334b	4	2	2	Second	
Applied Mechanics.....	337	4	2	..	Both	
Shopwork.....	338	4	1	1	Both	
Farm Buildings.....	431b	3	2	1	Second	
Spraying and Dusting Equipment	432b	2	..	2	Second	
Agricultural Drafting.....	435	6	..	3	Both	
Projects.....	436b	3	..	3	Second	
Mechanics.....	437	4	1	1	Both	
Surveying and Drainage.....	439a	3	2	1	First	
Engineering for Land Develop-						
ment.....	439	5	2	1	First	
			2	..	Second	
Farm Electrification.....	440	6	2	1	Both	
Agronomy:						
Cereal Crops.....	331b	3	2	1	Second	
Field Crop Production.....	343	6	2	1	Both	
Introduction to Agronomic Crops.	345	3	..	2	First	
			..	1	Second	
Hay and Pasture Crops.....	432a	3	2	1	First	
Plant Breeding.....	435b	3	2	1	Second	
Crop Adaptation and Distribution	436b	3	2	1	Second	
Soil Management.....	438b	2	2	..	Second	
Projects.....	442	2	..	2	Both	
Statistical Methods.....	444a	2	..	2	First	
Miscellaneous Agronomic Crops..	446a	2	2	..	First	
Animal Husbandry:						
Swine Production.....	330a	3	2	1	First	
Dairy Cattle Production.....	334b	3	2	1	Second	
Judging and Management.....	335b	3	..	3	Second	
Reproduction Physiology.....	438a	3	2	1	First	
Animal Breeding.....	439b	3	2	1	Second	
Horses, Sheep, Beef Cattle.....	441b	3	2	1	Second	
Projects.....	442a	3	..	3	First	
Judging and Management.....	443a	3	..	3	First	
Animal Pathology:						
Elementary Physiology.....	330b	3	3	..	Second	
Disease Prevention.....	431a	3	3	..	First	
Poultry Diseases.....	432b	2	..	2	Second	
Disease Prevention.....	434b	3	2	1	Second	
Bacteriology:						
General Microbiology.....	330b	4	2	2	Second	
Laboratory Methods.....	333b	4	1	3	Second	
Soil Microbiology.....	432a	4	2	2	First	
Food Microbiology.....	434b	4	2	2	Second	
Dairy Bacteriology.....	435a	4	2	2	First	
Projects.....	436	6	..	3	First	
			..	3	Second	
Seminar.....	437	2	1	..	Both	
Physiology of Micro-organisms..	438a	4	2	2	First	
Botany:						
Plant Physiology.....	330b	4	2	2	Second	
Histology—Cytology.....	331b	3	1	2	Second	
Methods.....	334a	3	1	2	First	
Plant Morphology.....	432a	3	1	2	First	
Systematic Botany.....	433	3	..	2	First	
		..	..	1	Second	

SYLLABUS
B.Sc.(AGR.) COURSE
THIRD AND FOURTH YEARS (continued)

SUBJECTS	Course Nos.	Unit Value	Periods per week		Term Given	Session offered (if alternating)
			Lects.	Labs.		
Chemistry:						
Organic Preparations.....	331a	3	1	2	First	
General Biochemistry.....	332a	4	2	2	First	
Quantitative Analysis.....	333a	6	2	4	First	
Qualitative Analysis.....	334b	6	2	4	Second	
Quantitative Analysis.....	335a	5	2	3	First	
Qualitative Analysis.....	336b	5	2	3	Second	
Physiological Chemistry.....	347b	4	2	2	Second	
Introductory Soil Science.....	354	8	2	2	Both	
Physical Chemistry.....	439	6	1	2	Both	
Projects.....	440	6	..	3	Both	
Seminar.....	441	2	1	..	Both	
Plant Biochemistry.....	448b	4	2	2	Second	
Food Chemistry.....	451a	4	2	2	First	
Advanced Food Analysis.....	452b	4	2	2	Second	
Dairying.....	430a	4	2	2	First	
Economics:						
Marketing of Farm Products....	330b	3	3	..	Second	
Economics of Marketing.....	331b	3	3	..	Second	
Farm Accounting and Farm Management.....	332a	3	3	..	First	
Economic Analysis.....	333	6	3	..	Both	
Project.....	434c	3	..	3	Either	
Money and Banking.....	321	6	3	..	Both*	
Economic Statistics.....	361	6	3	..	Both*	
Economic Analysis.....	412	6	3	..	Both*	
English:						
Literature of Rural Life.....	331	3	1	..	First	}
			2	..	Second	
Modern Drama.....	332	3	2	..	First	
			1	..	Second	
Extension Methods.....	330	4	1	1	Both	
Entomology:						
Insect Morphology.....	330	8	2	2	Both	
Insect Physiology.....	333	6	1	2	Both	
Systematic Entomology.....	335b	4	..	4	Second	
Economic Entomology.....	433	8	2	2	Both	
General Entomology.....	434b	4	2	2	Second	
Principles of Taxonomy.....	435	4	2	2	Both	
Terrestrial Ecology.....	436	6	1	1	First	} 1961-62
			2	2	Second	
Seminar.....	437	2	..	1	Both	
Projects.....	438	4	..	2	Both	
Acarology.....	439	6	1	1	First	} 1960-61
			2	2	Second	
French.....	100	6	3	..	Both	
Genetics:	300	4	2	..	Both	
Elementary Genetics.....	330a	5	3	2	First	
History.....	100	6	3	..	Both	
Horticulture:						
Pomology (Tree Fruits and Small Fruits)	338	6	2	1	Both	1961-62

* Faculty of Arts and Science.

SYLLABUS

B.Sc.(AGR.) COURSE

THIRD AND FOURTH YEARS (*continued*)

SUBJECTS	Course Nos.	Unit Value	Periods per week		Term Given	Session offered (if alternating)
			Lects.	Labs.		
Horticulture:—Continued						
Plant Propagation.....	340b	2	1	1	Second	1960-61
Horticultural Crops.....	345a	3	3	..	First	
Vegetable Crops.....	431	6	2	1	Both	
Landscape Architecture.....	432a	4	2	2	First	
Floriculture.....	435b	2	2	..	Second	
Seminar.....	437	2	..	1	Both	
Storage and Handling of						
Horticultural Crops.....	443a	2	1	1	First	
Fruit and Vegetable Processing..	444b	3	2	1	Second	
Mathematics:						
Elementary Differential						
Equations.....	330	2	1	..	Both	}
Elementary Statistics.....	331	3	1	1	First	
Elementary Statistics.....		1	Second	
Nutrition:						
Fundamentals of Nutrition.....	430	6	2	1	Both	}
Applied Animal Nutrition.....	432b	2	2	..	Second	
Project.....	433c	3	..	3	Either	
Physics:						
Biophysics.....	333a	4	2	2	First	}
Biophysics.....	340a	2	1	1	First	
Meteorology.....	432b	1	1	..	Second	
Soil Physics.....	436a	2	1	1	First	
Molecular and Atomic Physics..	438	4	2	..	Both	
Plant Pathology:						
Technique.....	330b	3	1	2	Second	}
Diseases of Plants.....	331a	4	2	2	First	
Mycology.....	333a	4	2	2	First	
Plant Pathology I.....	332b	4	2	2	Second	
Plant Pathology II.....	436	8	2	2	Both	
Projects.....	434	4	..	2	Both	
Seminar.....	435	2	..	1	Both	
Poultry Husbandry:						
General Poultry Husbandry....	333a	4	3	1	First	}
Poultry Products Technology...	339b	2	1	1	Second	
History of Breeds and Judging..	431a	2	..	2	First	
Breeding Principles.....	434b	3	2	1	Second	
Poultry Farm Management.....	435	4	1	1	Both	
Research.....	436	4	..	2	Both	
Projects (4th year).....	437	6	..	3	Both	
Poultry Nutrition.....	438b	3	2	1	Second	
Sociology:						
Introduction to Sociology.....	340c	3	3	..	Either	
Woodlot Management.....	330a	3	1	2	First	
Zoology:						
Technique.....	332b	2	..	2	Second	}
Comparative Vertebrate						
Anatomy.....	431	6	1	1	First	
Parasitology.....	434	6	1	1	First	}
		..	2	2	Second	

EVALUATION OF COURSES

For the purposes of evaluation, a full course consists of three lectures per week throughout the year, and is rated at 6 units. A two-hour laboratory period equals one lecture period. More or less than full courses are rated proportionately. One "unit" is one lecture or one laboratory period per week for one term.

COURSES OF STUDY

Before entering upon the Third year, students must prepare, in consultation with the professors under whom major subjects are to be taken, summaries of courses to be taken in the Third and Fourth years, which shall include, in addition to Agriculture 300a, the equivalent of not less than 11 nor more than $12\frac{1}{2}$ full courses (*i.e.*, from 67 to 76 units). Term schedules must be approved by the Faculty.

During the Third and Fourth years, students may specialize in any one of the following subjects. In special cases, and when approved by Faculty, a combination of two subjects may be arranged. In this case not less than $3\frac{1}{2}$ full courses (21 units) must be taken in each subject.

MAJOR SUBJECTS OFFERED

Agricultural Engineering	Entomology
Agronomy	General Biology
Animal Husbandry	Horticulture
Agricultural Bacteriology	Plant Pathology
Agricultural Chemistry	Poultry Husbandry
Agricultural Economics	

In addition to the foregoing, courses are offered in General Agriculture as follows:

GENERAL AGRICULTURE

This option is designed for students who do not care to follow one of the specialized courses offered but who wish to obtain a general training in agriculture together with the basic sciences. It offers the type of training asked for by those wishing to do extension work, to enter the commercial field, or to farm. It is arranged to meet the requirements of students who wish to give special attention to combinations of subjects which are not provided for otherwise. Though planned as a general course, it provides the possibility of pursuing graduate studies.

This option is under the direction of the Chairmen of the Departments of Agronomy and of Animal Science.

MACDONALD COLLEGE

The following are the courses which are obligatory in the various options. Any additional courses needed to make up the minimum requirements of 67 units may be selected from any courses listed in the Announcement, subject to time table restrictions. No schedule may contain more than 76 units.

†GENERAL AGRICULTURE

THIRD YEAR—Obligatory courses

COURSES	Unit Value	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
Agriculture 300a.....	1	..	1	..	..
Agronomy 343.....	6	2	1	2	1
Animal Husbandry 335b.....	3	..	..	..	3
Chemistry 332a.....	4	2	2	..	..
Chemistry 354.....	8	2	2	2	2
Economics 330b.....	3	..	..	3	..
Economics 332a.....	3	3	..	..	..
Mathematics 331.....	3	1	1	..	1
Total units.....	31	9	9	6	7

THIRD YEAR—Elective courses †

COURSES	Unit Value	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
Animal Pathology 330b.....	3	..	..	3	..
Botany 330b.....	4	..	..	2	2
Horticulture 345a.....	3	..	..	2	1
Plant Pathology 331a.....	4	2	2	..	..

†It is intended that elective courses to bring the total units up to the requirements (minimum 67, maximum 76), shall be chosen from those listed. However, other courses listed in the Announcement may also be selected.

B.Sc.(Agr.) MAJOR SUBJECTS

GENERAL AGRICULTURE

FOURTH YEAR—Obligatory courses

COURSES	Unit Value	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
Agricultural Engineering 439.....	5	2	1	2	..
Animal Husbandry 330a.....	3	2	1	..	..
Bacteriology 330b.....	4	..	..	2	2
Extension Methods 330.....	4	1	1	1	1
Genetics 330a.....	5	3	2	..	..
Nutrition 430.....	6	2	1	2	1
Total units.....	27	10	6	7	4

FOURTH YEAR—Elective courses

COURSES	Unit Value	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
Entomology 434b.....	4	..	..	2	2
Poultry 333a.....	4	3	1	..	..

MACDONALD COLLEGE

AGRICULTURAL ENGINEERING

THIRD YEAR

COURSES	Unit Value	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
Agriculture 300a.....	1	..	1	..	..
Agricultural Engineering 330.....	4	1	1	1	1
Agricultural Engineering 333a.....	4	2	2	..	..
Agricultural Engineering 334b.....	4	..	..	2	2
Agricultural Engineering 337.....	4	2	..	2	..
Agricultural Engineering 338.....	4	1	1	1	1
Animal Husbandry 335b.....	3	..	..	..	3
Chemistry 354 (lectures only).....	4	2	..	2	..
Economics 332a.....	3	3	..	..	..
Mathematics 330.....	2	1	..	1	..
Plant Pathology 331a.....	4	2	2	..	..
Total units.....	37	14	7	9	7

FOURTH YEAR

COURSES	Unit Value	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
Agricultural Engineering 431b.....	3	..	..	2	1
Agricultural Engineering 432b.....	2	..	..	..	2
Agricultural Engineering 435.....	6	..	3	..	3
Agricultural Engineering 436b.....	3	..	..	..	3
Agricultural Engineering *437.....	4	2	..	1	..
Agricultural Engineering 439.....	5	2	1	2	..
Agricultural Engineering 440.....	6	2	1	2	1
Agronomy 343.....	6	2	1	2	1
Physics *432b.....	1	..	..	1	..
Physics 436a.....	2	1	1	..	..
Total units.....	36 or 39	7 or 8	7	9	12

Total—73 or 76 units

*Students intending to proceed to the Faculty of Engineering must take Agricultural Engineering 437, Mechanics (Engineering 340). Students not intending to proceed to the Faculty of Engineering at McGill may take *either* Agricultural Engineering 437, Mechanics (Engineering 340), *or* Physics 432b, Meteorology, and Woodlot Management 330a, *or* any other courses approved by the Department of Agricultural Engineering.

B.Sc.(Agr.) MAJOR SUBJECTS

AGRONOMY

Agronomy deals with the science of field crop production. Inasmuch as crop production can be divided into two broad phases, viz., plant and soil, the option is designed to permit students to so specialize. In the Third year all students electing agronomy take the same courses, selected to give a broad base in fundamental sciences. In the Fourth year the student elects one of two phases, viz., plant phase including plant breeding, or soil phase.

THIRD YEAR

COURSES	Unit Value	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
Agriculture 300a.....	1	..	1	..	..
Agronomy 331b.....	3	..	..	2	1
Agronomy 345.....	3	..	2	..	1
Bacteriology 330b.....	4	..	..	2	2
Botany 330b.....	4	..	..	2	2
Botany 433.....	3	..	2	..	1
Chemistry 332a (lectures only).....	2	2	..	..	..
Chemistry 354.....	8	2	2	2	2
Genetics 330a.....	5	3	2	..	..
Mathematics 331.....	3	1	1	..	1
Physics 333a.....	4	2	2	..	..
Agronomy 442*	..	..	..	..	..
Total units.....	40	10	12	8	10

* All Third year students are required to attend oral presentations in this course.

MACDONALD COLLEGE

FOURTH YEAR—PLANT PHASE

COURSES	Unit Value	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
Agricultural Engineering 333a.....	4	2	2	..	..
Agronomy 432a.....	3	2	1	..	..
Agronomy 435b.....	3	..	..	2	1
Agronomy 436b.....	3	..	..	2	1
Agronomy 438b.....	2	..	..	2	..
Agronomy 442.....	2	..	1	..	1
Agronomy 444a.....	2	..	2	..	..
Agronomy 446a.....	2	2	..	..	..
Animal Husbandry 335b.....	3	..	..	..	3
Economics 331b.....	3	..	..	3	..
Entomology 434b.....	4	..	..	2	2
Plant Pathology 331a.....	4	2	2	..	..
Total units.....	35	8	8	11	8

Total—75 units

FOURTH YEAR—SOIL PHASE

COURSES	Unit Value	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
Agricultural Engineering 439a.....	3	2	1	..	..
Agronomy 432a.....	3	2	1	..	..
Agronomy 436b.....	3	..	..	2	1
Agronomy 438b.....	2	..	..	2	..
Agronomy 442.....	2	..	1	..	1
Agronomy 444a.....	2	..	2	..	..
Agronomy 446a.....	2	2	..	..	..
Bacteriology 432a.....	4	2	2	..	..
Chemistry 335a.....	5	2	3	..	..
Chemistry 336b.....	5	..	..	2	3
Chemistry 448b.....	4	..	..	2	2
Total units.....	35	10	10	8	7

Total—75 units

B.Sc.(Agr.) MAJOR SUBJECTS

ANIMAL HUSBANDRY

THIRD YEAR

COURSES	Unit Value	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
Agriculture 300a.....	1	..	1	..	..
Agronomy 343.....	6	2	1	2	1
Animal Husbandry 330a.....	3	2	1	..	..
Animal Husbandry 334b.....	3	..	..	2	1
Animal Pathology 330b.....	3	..	..	3	..
Bacteriology 330b.....	4	..	..	2	2
Chemistry 332a.....	4	2	2	..	..
Chemistry 347b (lectures only).....	2	..	..	2	..
Genetics 330a.....	5	3	2	..	..
Mathematics 331.....	3	1	1	..	1
Physics 340a.....	2	1	1	..	..
Total units.....	36	11	9	11	5

FOURTH YEAR

COURSES	Unit Value	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
Animal Husbandry 438a.....	3	2	1	..	..
Animal Husbandry 439b.....	3	..	..	2	1
Animal Husbandry 441b.....	3	..	..	2	1
Animal Husbandry 442a.....	3	..	3	..	..
Animal Husbandry 443a.....	3	..	3	..	..
Animal Pathology 431a.....	3	3	..	..	..
Animal Pathology 434b.....	3	..	..	2	1
Dairying 430a.....	4	2	2	..	..
Economics 331b.....	3	..	..	3	..
Nutrition 430.....	6	2	1	2	1
Nutrition 432b.....	2	..	..	2	..
Total units.....	36	9	10	13	4

Total—72 units

MACDONALD COLLEGE

AGRICULTURAL BACTERIOLOGY

THIRD YEAR

COURSES	Unit Value	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
Agriculture 300a	1	..	1	..	..
Bacteriology 330b	4	..	..	2	2
Bacteriology 333b	4	..	..	1	3
Chemistry 332a	4	2	2	..	..
Chemistry 333a	6	2	4	..	..
Chemistry 334b	6	..	..	2	4
Chemistry 347b } or Chemistry 448b }	4	..	..	2	2
Mathematics 331	3	1	1	..	1
Physics 333a	4	2	2	..	..
Plant Pathology 333a	4	2	2	..	..
Total units	40	9	12	7	12

FOURTH YEAR

COURSES	Unit Value	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
Bacteriology 432a	4	2	2	..	..
Bacteriology 434b	4	..	..	2	2
Bacteriology 435a	4	2	2	..	..
Bacteriology 436	6	..	3	..	3
Bacteriology 437	2	..	1	..	1
Bacteriology 438a	4	2	2	..	..
Chemistry 354 (lab. 1st term only) .. or	6	..	2	2	2
Chemistry 451a, and	4	2	2	..	..
Chemistry 452b (lectures only)	2	..	..	2	..
Elective*	2-6	..	..	..	..
Total units	32-36	..	..	..	..

* Students are required to add one or more elective courses, to a maximum of 6 units, these to be chosen in consultation with the Chairman of the Department.

Total—72.76 units

B.Sc.(Agr.) MAJOR SUBJECTS

AGRICULTURAL CHEMISTRY

ANIMAL BIOCHEMISTRY GROUP

THIRD YEAR

COURSES	Unit Value	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
Agriculture 300a.....	1	..	1	..	..
Animal Pathology 330b.....	3	..	..	3	..
Bacteriology 330b.....	4	..	..	2	2
Chemistry 331a.....	3	1	2	..	..
Chemistry 332a.....	4	2	2	..	..
Chemistry 333a.....	6	2	4	..	..
Chemistry 334b.....	6	..	..	2	4
Chemistry 347b.....	4	..	..	2	2
Mathematics 330.....	2	1	..	1	..
Physics 333a.....	4	2	2	..	..
Total units.....	37	8	11	10	8

FOURTH YEAR

COURSES	Unit Value	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
Bacteriology 434b.....	4	..	..	2	2
Chemistry 439.....	6	1	2	1	2
Chemistry 440.....	6	..	3	..	3
Chemistry 441.....	2	1	..	1	..
Chemistry 451a.....	4	2	2	..	..
Chemistry 452b.....	4	..	..	2	2
Mathematics 331.....	3	1	1	..	1
Nutrition 430.....	6	2	1	2	1
Physics 438.....	4	2	..	2	..
Total units.....	39	9	9	10	11

Total—76 units

MACDONALD COLLEGE

AGRICULTURAL CHEMISTRY

SOIL AND PLANT GROUP

THIRD YEAR

COURSES	Unit Value	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
Agriculture 300a.....	1	..	1	..	..
Bacteriology 330b.....	4	..	..	2	2
Botany 330b.....	4	..	..	2	2
Chemistry 332a.....	4	2	2	..	..
Chemistry 333a.....	6	2	4	..	..
Chemistry 334b.....	6	..	..	2	4
Chemistry 354.....	8	2	2	2	2
Mathematics 330.....	2	1	..	1	..
Physics 333a.....	4	2	2	..	..
Total units.....	39	9	11	9	10

FOURTH YEAR

COURSES	Unit Value	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
Agronomy 438b.....	2	..	..	2	..
Bacteriology 432a.....	4	2	2	..	..
Chemistry 331a.....	3	1	2	..	..
Chemistry 439.....	6	1	2	1	2
Chemistry 440.....	6	..	3	..	3
Chemistry 441.....	2	1	..	1	..
Chemistry 448b.....	4	..	..	2	2
Mathematics 331.....	3	1	1	..	1
Physics 436a.....	2	1	1	..	..
Physics 438.....	4	2	..	2	..
Total units.....	36	9	11	8	8

Total—75 units

B.Sc.(Agr.) MAJOR SUBJECTS

AGRICULTURAL ECONOMICS

Students electing Economics as a major subject take their Third year work at Macdonald College and their Fourth year work in the Department of Economics and Political Science at McGill University. They must have attained a standing in the first two years equivalent to at least second class honours according to the standards of the Faculty of Arts and Science, and have their courses approved by the Chairmen of the departments concerned. This option fulfils the academic requirements for admission to the Faculty of Graduate Studies and Research for work leading to the degree of Master of Arts. A minimum of 62 units is required.

THIRD YEAR

COURSES	Unit Value	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
Agriculture 300a.....	1	..	1	..	..
Agronomy 343.....	6	2	1	2	1
Animal Husbandry 330a.....	3	2	1	..	..
or					
Horticulture 343a.....	3	2	1	..	..
Animal Husbandry 334b.....	3	..	..	2	1
or					
Horticulture 344b.....	3	..	..	2	1
Chemistry 354 (no lab. in 2nd term)	6	2	2	2	..
Economics 330b.....	3	..	..	3	..
Economics 331b.....	3	..	..	3	..
Economics 332a.....	3	3	..	..	..
Economics 333.....	6	3	..	3	..
Extension Methods 330.....	4	1	1	1	1
Total units.....	38	13	6	16	3

FOURTH YEAR (In Montreal)

SUBJECT	Course Number	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
Economics.....	321	3	..	3	..
Economics.....	361	3	..	3	..
Economics.....	412	3	..	3	..
Elective.....		3	..	3	..
Total units.....		12		12	

Total—62 units

MACDONALD COLLEGE

ENTOMOLOGY

THIRD YEAR

COURSES	Unit Value	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
Agriculture 300a.....	1	..	1	..	..
Chemistry 332a.....	4	2	2	..	..
Entomology 330.....	8	2	2	2	2
Entomology 335b.....	4	..	..	..	4
Entomology 333.....	6	1	2	1	2
Zoology 332b.....	2	..	..	..	2
Physics 333a.....	4	2	2	..	..
Total units.....	29	7	9	3	10

FOURTH YEAR

COURSES	Unit Value	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
Entomology 433.....	8	2	2	2	2
Entomology 435.....	4	2	..	2	..
Entomology 437.....	2	..	1	..	1
Entomology 438.....	4	..	2	..	2
Genetics 330a.....	5	3	2	..	..
Mathematics 331.....	3	1	1	..	1
Total units.....	26	8	8	4	6

Third or Fourth Year (depending on session offered).

One of the following each year:—

Entomology 436 } (1961-62) Entomology 439 }
 Zoology 431 } Zoology 434 } (1960-61)

1 lect., 1 lab., 1st term; 2 lects., 2 labs., 2nd term.

Students particularly interested in Economic Entomology may also take Plant Pathology 331a or Agricultural Engineering 432b in Fourth year.

Total—67 units

B.Sc.(Agr.) MAJOR SUBJECTS

GENERAL BIOLOGY

This option is designed for students who do not desire to take either of the more specialized biology courses during their undergraduate years, but rather to select courses which will serve as a foundation for later specialization in one of the fields of applied biology, or for a teaching career. The Fourth year courses in this option are arranged so that the student may emphasize either the botanical or the zoological sciences. The option is under the direction of the Chairman of the Department of Entomology and Plant Pathology.

THIRD YEAR

COURSES	Unit Value	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
Agriculture 300a.....	1	..	1	..	..
Chemistry 332a.....	4	2	2	..	..
Physics 333a.....	4	2	2	..	..
Genetics 330a.....	5	3	2	..	..
Bacteriology 330b.....	4	..	..	2	2
Botany 330b.....	4	..	..	2	2
Botany 432a.....	3	1	2	..	..
Botany 433.....	3	..	2	..	1
Zoology 332b.....	2	..	..	..	2
Zoology 431 (1961-62) or Zoology 434 (1960-61) or Entomology 436 (1961-62)* }.....	6	1	1	2	2
Total Units.....	36	9	12	6	9

*In special cases students may elect Entomology 436 as an additional course.

FOURTH YEAR

COURSES	Unit Value	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
Mathematics 331.....	3	1	1	..	1
Zoology 431 (1961-62) or Zoology 434 (1960-61) }.....	6	1	1	2	2
Entomology 335b.....	4	..	..	..	4
Plant Pathology 434 or Entomology 438 }.....	4	..	2	..	2
Plant Pathology 435 or Entomology 437 }.....	2	..	1	..	1
Total Units.....	19	2	5	2	10

MACDONALD COLLEGE

GENERAL BIOLOGY

and one of the following Groups:—

GROUP A

COURSES	Unit Value	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
Botany 331b and 334a.....	6	1	2	1	2
or { Bacteriology 432a or }.....	4	{ 2	2	..	2
{ Chemistry 448b }		..	..	2	..
{ Plant Pathology 331a and 333a.....	8	4	4	..	..
or { Entomology 436 (1961-62).....	6	1	1	2	2
Total Units.....	10-14	(1-6)	(1-6)	(0-4)	(0-4)

Under special circumstances students may elect to do both Bacteriology 432a and Chemistry 448b.

GROUP B

COURSES	Unit Value	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
{ Entomology 333 or.....	6	1	2	1	2
{ Chemistry 347b.....	4	..	..	2	2
{ Entomology 330 or.....	8	2	2	2	2
{ Entomology 436 (1961-62) or.....	6	1	1	2	2
Chemistry 347b (if Entomology 333 is elected).....	4	..	..	2	2
or { Bacteriology 432a and Plant Pathology 333a.....	8	4	4	..	..
Total Units.....	8-14	(0-5)	(0-6)	(1-4)	(2-4)

Total Units for 4th year—27 - 33.

Note: Where the number of units for both option years otherwise totals less than 67 Entomology 435 should be taken, if possible.

Total—67 to 69 units

B.Sc.(Agr.) MAJOR SUBJECTS

HORTICULTURE

THIRD YEAR

COURSES	Unit Value	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
Agriculture 300a.....	1	..	1	..	..
Bacteriology 330b.....	4	..	..	2	2
Botany 330b.....	4	..	..	2	2
Chemistry 332a.....	4	2	2	..	..
Chemistry 354.....	8	2	2	2	2
Mathematics 331.....	3	1	1	..	1
Horticulture 340b.....	2	..	..	1	1
Physics 333a.....	4	2	2	..	..
Plant Pathology 331a.....	4	2	2	..	..
Total units.....	34	9	10	7	8

FOURTH YEAR

COURSES	Unit Value	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
Agronomy 444a.....	2	..	2	..	..
Agricultural Engineering 439a.....	3	2	1	..	..
Botany 433.....	3	..	2	..	1
Entomology 434b.....	4	..	..	2	2
Genetics 330a.....	5	3	2	..	..
Agronomy 435b.....	3	..	..	2	1
Horticulture 437.....	2	..	1	..	1
Horticulture 443a.....	2	1	1	..	..
Horticulture 444b.....	3	..	..	2	1
Total units.....	27	6	9	6	6

ELECTIVES	Unit Value	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
Fourth Year:					
Horticulture 432a.....	4	2	2	..	..
Horticulture 435b.....	2	..	..	2	..

Third or Fourth Year (depending on session offered)

Horticulture 338 2 lects., 1 lab. per week, both terms (1961-62).
Horticulture 431 2 lects., 1 lab. per week, both terms (1960-61).

Total—73 units

In addition to the above listed courses, students must elect in the 3rd and/or 4th years, depending on the session offered, any one of the following combination of elective courses:

	Total Units
1. Horticulture 431 and Horticulture 338.....	73
2. Horticulture 431, Horticulture 432, Horticulture 435, Woodlot Management 330a.....	75
3. Horticulture 338, Horticulture 432, Horticulture 435, Woodlot Management 330a.....	75

MACDONALD COLLEGE

PLANT PATHOLOGY

THIRD YEAR

COURSES	Unit Value	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
Agriculture 300a	1	..	1	..	..
Bacteriology 330b	4	..	..	2	2
Botany 330b	4	..	..	2	2
Botany 331b	3	..	..	1	2
Botany 334a	3	1	2	..	..
Chemistry 332a	4	2	2	..	..
Mathematics 331	3	1	1	..	1
Physics 333a	4	2	2	..	..
Plant Pathology 330b	3	..	..	1	2
Plant Pathology 333a	4	2	2	..	..
Total units	33	8	10	6	9

FOURTH YEAR

COURSES	Unit Value	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
Botany 432a	3	1	2	..	..
Botany 433	3	..	2	..	1
Chemistry 448b	4	..	..	2	2
Entomology 434b	4	..	..	2	2
Genetics 330a	5	3	2	..	..
Plant Pathology 434	4	..	2	..	2
Plant Pathology 435	2	..	1	..	1
Total units	25	4	9	4	8

Third or Fourth Year (depending on session offered).

Plant Pathology 332b 2 lects., 2 labs., second term (1960-61)

Plant Pathology 436 2 lects., 2 labs., both terms (1961-62)

Students are also advised and may be required, to take Agricultural Engineering 432b in Fourth year.

Total—70 units

B.Sc.(Agr.) MAJOR SUBJECTS

POULTRY HUSBANDRY

THIRD YEAR

COURSES	Unit Value	1st term		2nd term	
		Lects.	Labs.	Lects.	Labs.
Agriculture 300a.....	1	..	1	..	..
Animal Pathology 330b.....	3	..	..	3	..
Bacteriology 330b.....	4	..	..	2	2
Chemistry 332a.....	4	2	2	..	..
Economics 330b.....	3	..	..	3	..
Economics 332a.....	3	3	..	..	..
Genetics 330a.....	5	3	2	..	..
Mathematics 331.....	3	1	1	..	1
Physics 333a.....	4	2	2	..	..
Poultry 333a.....	4	3	1	..	..
Poultry 339b.....	2	..	..	1	1
Total units.....	36	14	9	9	4

FOURTH YEAR

COURSES	Unit Value	1st term		2nd term	
		Lects.	Labs.	Lects.	Labs.
Agronomy 343.....	6	2	1	2	1
Animal Pathology 431a.....	3	3	..	..	..
Animal Pathology 432b.....	2	..	..	..	2
Animal Husbandry 439b.....	3	..	..	2	1
or					
Chemistry 347b.....	4	..	..	2	2
Economics 331b.....	3	..	..	3	..
Poultry 435.....	4	1	1	1	1
Poultry 436.....	4	..	2	..	2
Poultry 437.....	6	..	3	..	3
Total units.....	31 or 32	6	7	8	10 or 11

Third or Fourth Year (depending on session offered).

Poultry 431a 2 labs. per week, 1st term (1961-62).

Poultry 434b 2 lects., 1 lab. per week, 2nd term (1961-62).

Poultry 438b 2 lects., 1 lab. per week, 2nd term (1960-61).

Total—75 or 76 units

DESCRIPTION OF COURSES —

Courses designated "a" are given in the first term only.
 Courses designated "b" are given in the second term only.
 Courses designated "c" may be given in either term.
 Courses with no letter designation continue throughout both terms.

Code	
A — Agricultural Building	E — Agricultural Engineering Building.
B — Biology Building	M — Main Building
C — Chemistry Building	P — Poultry Building
M — Monday	Th — Thursday
Tu — Tuesday	F — Friday
W — Wednesday	S — Saturday

Example: Tu. Th. 8:30—C228 = Tuesdays and Thursdays at 8.30 in Room 228 in the Chemistry Building.

DEPARTMENT OF AGRICULTURAL ENGINEERING

<i>Professor</i>	ANGUS BANTING
<i>Associate Professor</i>	J. H. COOPER
<i>Assistant Professor</i>	A. C. MALLOCH

330 (ENGINEERING 522). DESCRIPTIVE GEOMETRY

Fundamentals of orthographic projection; characteristics of lines and planes; plane figures and solids; auxiliary projections; analytical solutions; dihedral angles; solutions on cones (See note after 437).

M. Tu. 11:30—E106; Lab. M. 3:30—E208—1st term; Lab. Tu. 1:30—E208—2nd term. *Professor Malloch*

333a. FARM MACHINERY

A study of tillage, harvesting, and crop processing machinery. Field tests, dynamometer studies, hitches, and adjustments.

M. W. 8:30—E10; Lab. Th. 1:30, 3:30—E10.

Text Book:—Smith, Farm Machinery and Equipment.

334b. FARM POWER MACHINERY

A study of internal combustion engines, tractors, and power transmission.

M. W. 9:30—E106; Lab. M. 1:30, 3:30—E10.

Professor Cooper

Text Book:—Jones, Farm Gas Engines and Tractors.

AGRICULTURAL ENGINEERING

337. MECHANICS OF MATERIALS

Resolution and composition of force systems; force polygons; centres of gravity; reactions and stresses in structures. Strength of materials.

W. F. 10:30—E106—1st term; W. F. 10:30—E102—2nd term.

Professor Cooper

Text Book:—Higden and Stiles, Engineering Mechanics.

338. SHOPWORK

Hand and power equipment in woodworking; structural joints and fastenings; ropework and belting.

Professor Malloch

Metals: properties and physical tests, heat treatments, forging, welding (forge, flame, arc), soldering. Machine shop techniques.

Professor Cooper

M. 10:30—E106; Lab. S. 9:30—E2 and E4—1st term.

M. 10:30—E102; Lab. S. 9:30—E102—2nd term.

Text Book:—Ashcroft and Easton, General Shopwork.

431b. FARM BUILDINGS

Requirements, design, and construction of various farm buildings, insulation, heat loss, ventilation and sanitation.

Prerequisite:—Agr. Eng. 330 and 337.

W. F. 8:30—E204; Lab. Tu. 3:30—E208.

Professors Banting and Malloch

Text Book:—Foster and Carter, Farm Buildings.

432b. SPRAYING AND DUSTING EQUIPMENT

A laboratory study of spray pumps, dusting machines, spray guns, and other equipment.

Labs. Th. 1:30, 3:30—E10. *Professor Malloch*

435. AGRICULTURAL DRAFTING

The use of drawing instruments, projection, elementary architectural drawing. Perspective, architectural, and machine drawing.

Labs. M. 1:30—F. 1:30, 3:30—E208. *Professor Malloch*

Text Book:—French and Vierek, Engineering Drawing.

436b. PROJECTS

Second term. Credit—3 units.

437 (ENGINEERING 340). MECHANICS

Kinematics, dynamics and statics of systems of particles and rigid bodies; variable rectilinear and curvilinear motion; simple harmonic motion,

translation and rotation of rigid bodies; internal forces, energy methods, impact, gyroscopes.

Th. 8:30—E106; Lab. W. 1:30—E106—1st term.

Tu. 11:30—E106; Lab. W. 1:30—E106—2nd term. *Professor Cooper*

Text Book:—Higdon and Stiles, Engineering Mechanics (Prentice-Hall).

Note: Students taking courses 330 and 437 will sit for the examination as given in the Engineering Faculty in 522 and 340.

439a. SURVEYING AND DRAINAGE

Methods of land surveying applicable to agriculture including area surveys, levelling, mapping and profile drawing; elements of hydraulics; design and practise in both underdrainage and open ditch drainage.

2 lectures, 1 lab per week—first term, plus five days of field work prior to the opening date of session.

W. F. 11.30—E106

Professor Banting

Text Book:—Roe and Ayers, Engineering for Agricultural Drainage.

439. ENGINEERING FOR LAND DEVELOPMENT

All of the work covered in the first term in course 439a (above). Surveying and Drainage, together with the engineering aspects of erosion control, farm pond design, land clearing, and irrigation.

Lectures, labs and field work as prescribed for 439a for first term. Second term, 2 lectures per week.

W. F. 11.30—E106

Professor Banting

Text Book:—Frevert, Schwab, Edminster and Barnes, Soil and Water Conservation Engineering.

440. FARM ELECTRIFICATION

Applied electricity, current distribution on the farm, wiring codes, motors and electric equipment for the farm.

M. W. 9:30—E102; Lab. Tu. 3:30—E202—1st term.

Tu. Th. 9:30—E102; Lab. W. 3:30—E202—2nd term.

Professor Cooper

Text Book:—Gray and Wallace, Principles and Practice of Electrical Engineering.

AGRICULTURE

Three orientation courses provided by the departments of Economics, Horticulture, Poultry, Engineering, Animal Husbandry and Agronomy, offering a general view of agriculture, and some consideration of the nature and problems of the various branches in relation to each other and to the sciences.

110. AGRICULTURE

Part 1 Economics—Considers the nature of economics, examines the place of agriculture in the economy, and introduces the economics of Canadian Agriculture.

Professor Haver

Part 2 Horticulture—A survey of the fruit and vegetable industries, landscape practice, floriculture, and the secondary horticultural divisions, fruit preservation, and nursery practice in relation to other branches of agriculture.

Professors Murray, Taper, David and Harney

Part 3 Poultry—An introductory survey of production and marketing practices in the poultry industry.

Professors Poirier and Nikolaiczuk

Part 4 Engineering—Lectures and demonstrations on the role of engineering in agriculture, covering general principles of land development, farm machinery, farm power machinery (including rural electrification), farm buildings and rural sanitation.

W. F. 9:30—P202; Lab. F. 3:30—P202.

Professors Banting, Cooper and Malloch

220. AGRICULTURE

Part 1 Animal Husbandry—Designed to give an appreciation of the development and importance of the livestock industry, type and present levels of production of farm livestock, and breeding, feeding and management practices.

Professor MacDonald

Part 2 Agronomy—Soil and crop management and a general review of the most important crops in Canada.

Professor Steppler

Part 3 Economics—An extension of Part 1 of Agr. 110, delineating federal and provincial jurisdiction over agriculture, and studying farm credit and co-operatives.

M. W. 10:30—P202; Lab. F. 1:30 or 3:30—A202.

Professor Haver

300a. AGRICULTURE

A tour to illustrate the diversity of the agricultural industry, the problems besetting a farmer, the nature of some agricultural research, the impact of climatic, edaphic and economic factors on agriculture.

Sept. 15th, 16th and 17th, 1960.

Professor Steppler and Student Tour Committee

DEPARTMENT OF AGRONOMY

Professor H. A. STEPLER, *Chairman of the Department*

Associate Professor R. I. BRAWN

Assistant Professor H. R. KLINCK

Assistant Professor J. S. BUBAR

Instructor and Field Superintendent W. W. KEELER

MACDONALD COLLEGE

331b. CEREAL CROPS

An intensive study of cereal crops; production, types, varieties, culture, utilization, seed production, grain and seed grades.

Prerequisite:—Agronomy 345.

W. F. 8:30—A230; Lab. Tu. 3:30—A230. *Professor Klinck*

343. FIELD CROP PRODUCTION

For students other than specialists in Agronomy. Crop adaptation, factors affecting production, forage and grain crops.

Tu. Th. 10:30—A202; Lab. W. 3:30—A230—1st term.

Tu. Th. 8:30—A202; Lab. Tu. 1:30—A230—2nd term.

Professors Bubar and Klinck

345. INTRODUCTION TO AGRONOMIC CROPS

A study of characteristics of important agronomic crops.

Prerequisite for Agronomy 331b, 432a, 446a.

Lab. F. 1:30, 3:30—A230—1st term.

Lab. F. 1:30—A230—2nd term.

Professor Bubar

432a. HAY AND PASTURE CROPS

An intensive study of forage crops; species, varieties, adaptation, mixtures, management, preservation, and seed production.

Prerequisite:—Agronomy 345.

M. W. 9:30—A202; Lab. F. 8:30—A230.

Professor Stepler

435b. PLANT BREEDING

Problems, methods, and the interpretation of results, in the breeding and improvement of plants.

Prerequisite:—Genetics 330a and Botany 433.

Tu. Th. 8:30—A204; Lab. M. 1:30—A204.

Professor Brawn

436b. CROP ADAPTATION AND DISTRIBUTION

Factors influencing crop adaptation and their effect on distribution.

Tu. Th. 10:30—A204; Lab. W. 1:30—A204.

Professor Brawn

438b. SOIL MANAGEMENT

An analysis of factors influencing soil productivity and their control.

Prerequisite:—Chemistry 354.

W. F. 10:30—A204.

Professor Bubar

ANIMAL SCIENCE

442. PROJECTS

Directed study on an approved problem, requiring both oral and written presentation. Third and Fourth year students must attend all oral presentations. The total time for Third and Fourth year students is equivalent to one lab. per week, both terms.

Professor Steppler and Staff

444a. STATISTICAL METHODS

Experimentation, analysis, and design in biological research.

Prerequisite:—Mathematics 331 or its equivalent. See also course Agronomy 60 in the Faculty of Graduate Studies and Research, of which this is a part.

Labs. Tu. 8:30—A202; F. 1:30—A248.

Professor Steppler

446a. MISCELLANEOUS AGRONOMIC CROPS

A study of agronomic crops not discussed in Agronomy 331b or 432a, which are grown for the production of oil, fibre, sugar, and other products of economic importance.

Prerequisite:—Agronomy 345.

W. F. 10:30—A204.

Professor Klinck

DEPARTMENT OF ANIMAL SCIENCE

*Chairman of the Department,
Professor*

Associate Professors

Assistant Professors

E. MERCIER

L. H. HAMILTON
(post-retirement)

M. A. MACDONALD

P. A. ANASTASSIADIS

J. E. MOXLEY

330a. SWINE PRODUCTION

Care, feeding, and management of swine. Special problems of bacon hog production. Swine experimentation and interpretation of results.

Tu. Th. 8:30—A146; Lab. Tu. 1:30—Livestock Barn.

Professor Moxley

334b. DAIRY CATTLE PRODUCTION

The production of dairy cattle, with special reference to the problems of the dairy cattle industry; breeding, care, and management of dairy cattle; dairy cattle organizations.

M. W. 10:30—A146; Lab. Th. 1:30—Livestock Barn.

Professor MacDonald

MACDONALD COLLEGE

335b. LIVESTOCK JUDGING AND MANAGEMENT

An introductory course dealing with the principles and practice of livestock selection and management. For students other than specialists in Animal Husbandry.

Labs. Tu. 3:30; F. 1:30, 3:30—A146 and Livestock Barn.

Professor Moxley

438a. REPRODUCTION PHYSIOLOGY

Principles of reproduction of farm animals. Anatomy and physiology of the reproductive system in the male and female; early prenatal development; hormones in reproduction; artificial insemination.

Tu. Th. 9:30—A146; W. 1:30—Livestock Barn, A146

Professor MacDonald

439b. ANIMAL BREEDING

Genetics in relation to the breeding of farm animals. Systems of mating and selection for animal improvement. Prerequisite Genetics 330a.

Tu. Th. 10:30—A146; Lab. W. 1:30—A146.

Professor Moxley

441b. HORSES, SHEEP, AND BEEF CATTLE

A course covering the important features of the production of these classes of stock in Canada.

Tu. Th. 9:30—A146; Lab. Th. 1:30—Livestock Barn.

Professor Hamilton

442a. PROJECTS

In special cases, permission may be obtained to substitute Nutrition 433c for this course. Credit—3 units.

Staff

443a. LIVESTOCK JUDGING AND MANAGEMENT

An advanced course in livestock selection and management. This course includes visits to various farms, breeding establishments, and livestock shows.

Lab. M. 1:30; Lab. Th. 1:30, 3:30—A146 and Livestock Barn.

Staff

ANIMAL PATHOLOGY

Assistant Professor

D. G. DALE

Assistant Professor (Honorary)

H. C. GIBBS

330b. ELEMENTARY PHYSIOLOGY

W. F. S. 8:30—B112.

Professor Dale

AGRICULTURAL BACTERIOLOGY

431a. DISEASE PREVENTION

The causes of disease; elementary immunology. General principles of disease prevention, sanitation, and hygiene. Prerequisite for Animal Pathology 432b.

Prerequisite:—Animal Pathology 330b and Bacteriology 330b or its equivalent.

M. W. F. 11:30—B202.

Professor Dale

432b. POULTRY DISEASES

Autopsy and laboratory work; discussion of the important poultry diseases.

Prerequisite:—Animal Pathology 431a.

Lab. M. 1:30, 3:30—B202 and B248.

Professor Dale

434b. DISEASE PREVENTION

Specific problems in the prevention of diseases of animals caused by bacteria, viruses, internal parasites, external parasites, and nutritional deficiencies. *Prerequisite:*—Animal Pathology 431a.

M. W. 10:30—B202; Lab. Th. 1:30—B248.

Professor Dale

DEPARTMENT OF AGRICULTURAL BACTERIOLOGY

Chairman of the Department,

Professor

A. C. BLACKWOOD

Associate Professor

R. A. MACLEOD

Assistant Professor

R. KNOWLES

330b. GENERAL MICROBIOLOGY

General introduction to microbiology; elementary principles of microbial morphology and physiology; relation of microorganisms to fermentations, food, dairy, water, sewage, soils and disease.

Tu. Th. 9:30—B216; Lab. M. W. 1:30 or M. 3:30, W. 9:30—B118, B110.

Professor Blackwood

Text Books: Pelczar and Reid, Microbiology; Stanier, et al., The Microbial World (option students only).

333b. LABORATORY METHODS

A study of techniques especially as applied to bacterial morphology and physiology; enrichment, isolation and identification of selected groups of microorganisms.

Tu. 8:30—B118; Lab. W. Th. 3:30; Lab. F. 10:30—B118.

Staff

Text Book: Manual of Microbiological Methods.

MACDONALD COLLEGE

432a. SOIL MICROBIOLOGY

A study of some of the groups of microorganisms in the soil and their importance in the dynamics of soil processes. Methods of counting and isolating organisms and of studying soil metabolism. Ecology of the soil microbial population and its interrelationships with higher plants.

M. W. 8:30—B202; Lab. M. F. 3:30—B118.

Professor Knowles

434b. FOOD MICROBIOLOGY

The microbiological examination of food and of the fermentations involved in small scale and industrial processes. Principles of preservation, food poisoning, and intestinal microbiology.

M. W. 9:30—B202; Lab. M. F. 10:30—B118.

Professor Knowles

435a. DAIRY BACTERIOLOGY

A study of the organisms encountered during the production of milk and milk products. Principles of pasteurization and disinfection, etc.

M. 9:30, F. 8:30—B202; Lab. M. 10:30; Lab. F. 9:30—B118.

436. PROJECTS

A project involving laboratory work will be assigned each 4th year option student. Credit—6 units.

Staff

437. SEMINAR. Credit—2 units.

Staff

438a. PHYSIOLOGY OF MICROORGANISMS

Principles of microbial physiology including growth, nutrition, intermediary metabolism, and industrial fermentations. The laboratory includes experiments on microbial assays, carbon balances, preparation and assay of enzyme extracts; the use of the Warburg apparatus and Thunberg tubes, etc.

Tu. Th. 10:30—B202; Lab. M. 1:30, W. 1:30—B126.

Professor Blackwood

Text Book: Oginsky and Umbreit, An Introduction to Bacterial Physiology.

DEPARTMENT OF AGRICULTURAL CHEMISTRY

Professors

R. H. COMMON

W. A. DELONG

H. G. DION

Associate Professor

B. E. BAKER

Assistant Professor

P. A. ANASTASSIADIS

Lecturer

G. O. HENNEBERRY

110. INORGANIC CHEMISTRY

Tu. Th. S. 8:30—C218; Lab.—Sect. 1 and 2—Tu. 1:30, 3:30—C116;
Lab. Sect. 3—M. 1:30, 3:30—C116. *Mr. Henneberry*

Text Book:—Quagliano, Chemistry (Prentice-Hall).

220. ORGANIC CHEMISTRY

Fundamental concepts of organic chemistry; properties and structure of related aliphatic, aromatic and the simpler heterocyclic compounds. Laboratory work includes preparation and examination of typical organic compounds.

M. Tu. Th. 11:30—C218; Lab. Sect. 1 and 2—W. 1:30, 3:30—C116;
Lab. Section 3—W. 1:30, 3:30—C226. *Professor Baker*

Text Book:—Wertheim, Textbook of Organic Chemistry (Blakiston).

331a. ORGANIC CHEMISTRY

A laboratory course designed to provide experience in laboratory methods and techniques.

Th. 10:30—C228; Lab. Th. 1:30, 3:30—C126. *Professor Baker*

332a. GENERAL BIOCHEMISTRY

Carbohydrates; lipids; amino-acids and proteins; properties, nature, and classification of enzymes.

M. F. 8:30—C218; Lab. F. 1:30, 3:30—C116. *Professor Common*

Text Book:—Downes, The Chemistry of Living Cells (Harper & Bros.).

333a. QUANTITATIVE ANALYTICAL CHEMISTRY

Application of the laws of chemical equilibration to ionization, pH., precipitations and oxidation-reduction reactions; problems in quantitative inorganic analysis. Laboratory work includes instruction in the use and care of the analytical balance; techniques of gravimetric, volumetric and colorimetric inorganic analysis; preparation of standard solutions; acidimetry and alkimetry; determinations of selected cations and anions by standard procedures.

Tu. Th. 11:30—C228; Lab. M. 1:30, 3:30; Tu. 1:30, 3:30—C126.

Professor DeLong

Text Book:—Kolthoff and Sandell, Textbook of Quantitative Inorganic Analysis.

334b. QUALITATIVE ANALYTICAL CHEMISTRY

Valence, theories of acids and bases, ionization, theory of co-ordination compounds and complex ions, oxidation-reduction reactions, the law of mass action in relation to solubility and precipitation. Laboratory work is devoted to the systematic identification of the more common cations and anions by semi-micro techniques.

MACDONALD COLLEGE

W. F. 9:30—C228; Lab. M. 8:30, 10:30—C126;
Lab. Tu. 1:30, 3:30—C126. *Mr. Henneberry*
Text Book:—Gilreath, Qualitative Analysis (McGraw-Hill).

335a. QUANTITATIVE ANALYTICAL CHEMISTRY

As in Course 333a. with abridged laboratory.

Tu. Th. 11:30—C228; Lab. M. 1:30, Tu. 1:30, 3:30—C126.

Professor DeLong

336b. QUALITATIVE ANALYTICAL CHEMISTRY

As in course 334b, with abridged laboratory.

W. F. 9:30—C228; Lab. M. 8:30, Tu. 1:30, 3:30—C126.

Mr. Henneberry

347b. PHYSIOLOGICAL CHEMISTRY

Prerequisites:—Chemistry 332a and Physics 333a. Alimentary digestion and absorption of nutrients; composition and properties of blood; gaseous exchange and acid base equilibrium; intermediate metabolism of nutrients and tissue respiration; urinary and fecal excretion; hormones.

Laboratory work parallels the lecture course and includes blood and urine analysis.

Tu. Th. 11:30—C228; Lab. F. 1:30, 3:30—C116. *Professor Common*

Text Book:—Downes, The Chemistry of Living Cells (Harper & Bros.).

354. INTRODUCTORY SOIL SCIENCE

Geology as related to soil formation; the characteristics, physical properties, and genesis of the major soil groups.

Tu. Th. 9:30—C208; Lab. Th. 1:30, 3:30—C226—1st term.

Tu. Th. 10:30—C208; Lab. Th. 1:30, 3:30—C226—2nd term.

Professor DeLong

Text Book:—Lyon, Buckman, and Brady, The Nature and Properties of Soils, 5th ed. (Macmillan).

439. PHYSICAL CHEMISTRY

An introduction to kinetic theory; the properties of solids and liquids; the phase rule; colligative properties of dilute solutions; thermochemistry and chemical kinetics.

Tu. 10:30—C228; Lab. Tu. 1:30, 3:30—C34—both terms.

Professor Baker

Text Book:—Glasstone, Elements of Physical Chemistry (Van Nostrand).

440. ASSIGNED PROJECTS. Credit—6 units.

Staff

441. SEMINAR. Credit—2 units.

Staff

448b. PLANT BIOCHEMISTRY

Prerequisites:—Chemistry 332a and Physics 333a. Chemistry of plant nutrition with particular reference to the inorganic elements and inter-relations in the metabolism of inorganic and organic substances.

W. F. 8:30—C228; Lab. F. 1:30, 3:30—C226. *Professor DeLong*

450a. TEXTILE CHEMISTRY

See page 4612.

451a. CHEMISTRY OF FOODS AND FEEDING STUFFS

Principles of analysis, including a more detailed treatment of sugars, starches, oils, and fats; analytical chemistry of milk and milk products, and of certain of the vitamins.

Tu. Th. 8:30—C228; Lab. Th. 1:30, 3:30—C124.

Professors Common and Anastassiadis

452b. ADVANCED FOOD ANALYSIS

A specialized course including more advanced aspects of the analytical chemistry of oils and fats, of proteins and amino acids, of vitamins and of minor elements.

Tu. Th. 8:30—C228; Lab. M. 1:30, 3:30—C124.

Professors Common and Anastassiadis

DAIRYING

430a. THE DAIRY INDUSTRY

Its importance in Canadian agriculture, the relative importance of the various products, and an analysis of the trade. The farm dairy and its equipment. The composition, quality, value, care, and sale of milk and cream. Quality and defects in butter, cheese, and other dairy products. Instruction in testing, separating, buttermaking, and cheesemaking.

M. W. 10:30—A248; Lab. Tu. 1:30, 3:30—A106. *Professor Anastassiadis*

DEPARTMENT OF AGRICULTURAL ECONOMICS

Professor

D. L. MACFARLANE

Associate Professor

C. B. HAVER

100. ECONOMIC HISTORY

Evolution of economic institutions; the ancient empires; economic and social aspects of the decline and fall of the Roman Empire; mediaeval agrarian economy; fairs, towns and trading companies; mediaeval money;

the voyages of discovery; religion and the rise of capitalism; nationalism and mercantilism; the colonial system; the beginnings of modern banking; the great inventions and the factory system; North American industrial development; trade unions and the co-operative movement; legislative protection of the worker; international finance; rise and fall of the gold standard; evolution of the central banking function; recent economic changes.

Elective.

M.W. 9:30—Assembly Hall plus 1 hr. conference. *Professor James*
(*Faculty of Arts and Science*)

220b. PRINCIPLES OF ECONOMICS

The anatomy of the Canadian economy, especially the agricultural, household, and governmental segments. The business firm and the industry; price and output. Money; the Canadian banking system; national income and employment. The distribution of wealth and income. International trade.

M. W. F. 8:30—A202.

Professor MacFarlane

330b. ECONOMICS OF MARKETING

Nature and importance of marketing. Markets and market prices. Selling and buying. Marketing margins and efficiency. Co-operation and co-operatives. Federal and provincial marketing jurisdiction and policies. The marketing of Canada's principal farm products. Marketing study tours.

M. W. F. 9:30—A202.

Professor MacFarlane

331b. ECONOMICS OF AGRICULTURE

The Canadian farm industry; the regionalism of production; the distribution of the labor force and of financial returns in Canadian agriculture; farm efficiency. The relation between agriculture and other Canadian industries. The economic background of farm policy. The international trade position of Canadian agriculture.

M. W. F. 11:30—A204.

Professor MacFarlane

332a. FARM ACCOUNTING AND FARM MANAGEMENT

The economics of farm production and farm management decisions. Farm visits followed by a detailed analysis of the business of these farms involving the preparation of farm plans and budgets covering present and proposed farm management schemes. A system of single entry farm accounts involving inventories, cash receipts, and expenses; a system of

AGRICULTURAL ECONOMICS

production records; the analysis of farm account and production records as a means of improving efficiency of production; farm income tax.

M. W. F. 11:30—A248.

Professor Haver

333. ECONOMIC ANALYSIS

An intermediate course in economic theory analyzing the forces which determine the levels of prices, production, consumption, income, and employment.

M. W. F. 8:30—A204.

Professor Haver

434c. PROJECT AND SPECIAL PROBLEMS. Credit—3 units.

Staff

321. MONEY AND BANKING

Theory and practice of money and credit; organization and operations of financial institutions; monetary policy; concept and function of money; early history of credit institutions; the crisis of 1825, the Peel Bank Act, and the development of the British financial system; the National Banking System in U.S. and the evolution of the Federal Reserve System; early development of Canadian banking; effects of World Wars I and II and of the Great Depression on U.S., U.K., and Canadian banking; monetary policy and economic fluctuations.

(Faculty of Arts and Science)

3 Lects. per week—both terms.

361. ECONOMIC STATISTICS

Description of frequency distributions including averages, dispersion, and skewness. Charting and analysis of time series: trend lines, seasonal indexes, and measurement of cyclical fluctuations. Index numbers. Simple linear correlation. An introduction to Statistical Inference covering the following topics; elementary distributions, sampling, tests of statistical hypotheses, and estimation of population parameters.

(Faculty of Arts and Science)

2 Lects., 1 Lab. per week—both terms.

412. ECONOMIC ANALYSIS

Analysis of the economic problems of the firm; the determination of the demand curve; the forecasting of demand; the measurement of costs; pricing problems in various types of markets; the determination of optimum policies for such matters as advertising, packaging, and premiums.

3 hours.

Professor Armstrong

(Faculty of Arts and Science)

ENGLISH

Professor of Education

Assistant Professor

Lecturers

C. WAYNE HALL

DESMOND W. COLE

MARGARET H. DUBREUIL

A. R. GODFREY

C. MEIR

114. ENGLISH COMPOSITION

Instruction and practice in the elements of good speech and good writing. A student failing in the year's work will be required to repeat this course until the necessary standard has been attained.

F. 10:30, S. 9:30—M258. *Messrs. Godfrey, Meir and Mrs. Dubreuil*

116. ENGLISH LITERATURE

A study of the forms of literature—mainly poetry, fiction, drama, from Anglo-Saxon times to about 1880—with special attention to those factors which condition literary taste and judgment. A schedule of topics and readings will be available before the course begins.

Tu. Th. 12:30—Assembly Hall. *Mrs. Dubreuil, Messrs. Godfrey and Meir*

225. MODERN LITERATURE

An extension of Course 116, with topics and readings drawn from the work of British, Canadian, and American writers in the period from 1880 to the present. This course may be elected by Third or Fourth year students.

W. F. 11:30—M. 258.

Professor Hall

226. SPEAKING AND WRITING

An extension of Course 114 for students who require or desire further practice in oral and written expression. Laboratory periods may be substituted for lectures. This course may be elected by Third or Fourth year students: it is required for Extension Methods 330, but should be taken, if possible, in the Second year.

W. F. 11:30—C110 and M50.

Messrs. Godfrey and Meir

All Second year degree course students must take either English 225 or English 226. The prerequisite to these courses is successful completion of Senior Matriculation English Literature and Composition, or English 114 and 116 at Macdonald College.

331. THE LITERATURE OF RURAL LIFE

A study of Canadian and American regional literature. The schedule of topics and readings, covering the period from pioneer settlements to

the present day, will emphasize the large place in our literature held by prose and poetry which is inspired by the land and the people who live on the land. Not given for fewer than 5 students.

To be arranged.

332. MODERN DRAMA

A reading course in modern English and American drama with special attention to trends and developments since 1900. Not given for fewer than 5 students.

To be arranged.

Professor Hall

EXTENSION METHODS

330. EXTENSION METHODS

Study group technique; extension methods in agriculture and household science; rural sociology.

Laboratory work comprises participation in debates, conduct of public meetings and similar activities, and the operation of the Rural Problems Club, which meets weekly from November 1st to March 31st. Membership in the Club is open to all students in Agriculture, Household Science, and the School for Teachers. Students who elect this course will also be required to take English 226, unless this course was taken in the Second year.

To be arranged.

Professor Avison and Committee

DEPARTMENT OF ENTOMOLOGY AND PLANT PATHOLOGY

*Chairman of the Department,
Professor*

D. KEITH McE. KEVAN
(Entomology)

Professors

JOHN G. COULSON
(Plant Pathology, post-retirement)

E. MELVILLE DU PORTE
(Entomology, post-retirement)

W. E. SACKSTON
(Plant Pathology)

Associate Professors

R. S. BIGELOW
(Entomology)

F. O. MORRISON
(Entomology)

R. L. PELLETIER
(Plant Pathology)

MACDONALD COLLEGE

Assistant Professors

E. O. CALLEN
(*Plant Pathology*)

R. H. ESTEY
(*Plant Pathology*)

J. E. MCFARLANE
(*Entomology*)

Research Associate

N. R. FRASER
(*Entomology*)

BIOLOGY

120. GENERAL BIOLOGY

The structure and functions of living organisms; how they live and perpetuate themselves in relation to their environment. Protoplasm, cells, tissues, organs, systems; metabolism, nutrition, perception, growth, reproduction, inheritance; ecology and evolution of plants and animals. Emphasis is placed on the higher animals and flowering plants, but surveys of both plant and animal kingdoms are included.

M. W. F. 8:30 or M. W. F. 10:30—B216; Labs., B112, B212, B204.
Sect. 1, M. 1:30, 3:30. Sect. 2, Th. 1:30, 3:30. Sect. 3, F. 1:30, 3:30.

Professor Morrison or Professor Callen

BOTANY

210b. INTERMEDIATE BOTANY

A review of the plant kingdom with special reference to the morphology, biology, etc., of algae, fungi, bryophytes, gymnosperms and angiosperms; alternation of generations; plant parasitism and the elements of plant pathology; an introduction to comparative morphology of the angiosperms; the elements of plant geography.

2 lects., 2 labs. per week—second term.

Professor Callen

Prerequisite: Biology 120. *Not to be offered until 1961-62.*

330b. PLANT PHYSIOLOGY

A study of the water relations, mineral nutrition, photosynthesis, respiration, growth, and development of plants.

Tu. Th. 11:30—B196; Lab. M. W. 3:30—B196.

Professor Pelletier

331b. PLANT HISTOLOGY AND CYTOLOGY

A detailed study of cells, cell division, tissues and their development, and the general anatomy of vascular plants.

W. 9:30—B110; Lab. Th. 1:30, 3:30—B110.

Professor Estley

ZOOLOGY

334a. PLANT HISTOLOGICAL METHODS

A course in methods for the preparation of plant materials for microscopic examination, and in the use of equipment for microscopy and photomicrography.

M. 10:30—B14; Lab. Tu. 1:30, 3:30—B14.

Professor Estey

432a. PLANT MORPHOLOGY

W. 9:30—B112; Lab. S. 8:30, 10:30—B14.

Professor Callen

433. SYSTEMATIC BOTANY

Lab. Tu. 1:30, 3:30—B118—1st term.

Lab. Tu. 1:30—B118—2nd term.

Professor Callen

ZOOLOGY

220. GENERAL ZOOLOGY

An introduction to animal structure, physiology, and classification. Representatives of the chief phyla are studied and used to introduce some of the general principles of Zoology.

Tu. S. 10:30—B216; Lab. Tu. 1:30, 3:30—B112—B212—B204.

Professor Kevan and Staff

230a. INTERMEDIATE ZOOLOGY

A review of the animal kingdom with special reference to the morphology, biology, etc., of protozoa, flatworms, roundworms, annelids, molluscs, arthropods and chordates; the elements of entomology; animal parasitism; alternation of generations; an introduction to embryology and the comparative morphology of vertebrates; the elements of zoogeography.

2 Lects.; 2 Labs. per week—first term.

Professor Kevan and Staff

Prerequisite: Biology 120. *Not to be offered until 1961-62.*

332b. ZOOLOGICAL TECHNIQUE

The preparation of histological slides and the technique of making scientific illustrations.

Lab. S. 8:30, 10:30,—B96.

Professor McFarlane

431. COMPARATIVE VERTEBRATE ANATOMY

A general course on vertebrate morphology, comparative anatomy and evolution.

(Given in 1961-62.)

1 Lect.; 1 Lab.—first term; 2 Lects.; 2 Labs.—second term.

Professor Bigelow

MACDONALD COLLEGE

434. PARASITOLOGY

An introduction to the study of invertebrates of economic importance with special reference to veterinary and medical aspects and the occurrence of animal and plant diseases due to animal pathogens and vectors. (Given in 1960-61.)

Tu. 10:30—B204; Lab. Th. 10:30—B204—first term; M. Tu. 8:30—B204, Lab. M. W. 10:30—B204—second term. *Professor Kevan*

ENTOMOLOGY

330. INSECT MORPHOLOGY

W. F. 10:30—B204; Lab. W. 1:30, 3:30—B210—1st term.

Tu. Th. 9:30—B204; Lab. Tu. 1:30, 3:30—B210—2nd term.

Professor DuPorte

333. INSECT PHYSIOLOGY

Comparative physiology with special reference to insects and other terrestrial arthropods. The elements of animal behaviour and reaction to external stimuli.

M. 11:30—B96; Lab. Th. 1:30, 3:30—B96—1st term.

M. 9:30—B96; Lab. M. 1:30, 3:30—B96—2nd term.

Professor McFarlane

335b. SYSTEMATIC ENTOMOLOGY

The classification of the principal groups of insects. Each student will bring to the class at least 50 representatives of the main orders of insects which he has collected, mounted and labelled according to instructions given.

Lab. W. Th. 1:30, 3:30—B210.

Professor Bigelow

433. ECONOMIC ENTOMOLOGY

The principles and practice of Applied Entomology from a professional standpoint, including a survey of the Class Hexapoda with special reference to biological and economic aspects. A representative collection of economic insects including at least 50 adults, 20 larvae, and five complete life history sets will be required of all students taking this course.

M. W. 8:30—B204; Lab. W. 1:30, 3:30—B204—1st term.

Th. S. 8:30—B204; Lab. Tu. 1:30, 3:30—B204—2nd term.

Professor Morrison

434b. GENERAL ENTOMOLOGY

A more elementary course similar to the foregoing, but suited to the general student. A collection of 25 adult insects, 10 larvae, and one complete

PLANT PATHOLOGY

life history set, representative of common economic insects, will be required of each student taking the course.

M. W. 9:30—B204; Lab. Th. 1:30, 3:30—B204. *Professor Morrison*

435. PRINCIPLES OF TAXONOMY

A course in the principles of variation in animals, species formation, taxonomic theory and method, etc.

M. F. 9:30—B210. *Professor Bigelow*

436. TERRESTRIAL ECOLOGY

The influence of the environment on development, activities, distribution, and abundance with particular reference to insects. Methods and principles of animal ecology and zoogeography. An introduction to the soil fauna. (Given 1961-62.)

Professor Kevan

437. SEMINAR

Presentation and discussion of reports on: (1) Assigned topics; (2) Recent work in Entomology and Zoology; (3) Original investigation. Credit—2 units.

Staff

438. PROJECTS

One or more problems entailing private investigation will be allotted to each student at the end of his Third year. The work done should be equivalent to two labs. per week, both terms.

Staff

439. ACAROLGY AND SOIL ENTOMOLOGY

The biology and systematics of mites, ticks, myriapods, collembola, etc.; the arthropods associated with soil and litter. (Given 1960-61.)

W. 11:30—B204; Lab. Tu. 8:30—B202, B210—1st term.

F. 10:30, 11:30—B204; Lab. F. 1:30, 3:30—B210—2nd term.

Professor Kevan

For other courses, see ZOOLOGY, page 4577.

PLANT PATHOLOGY

330b. TECHNIQUE

The preparation of media; sterilization, isolation, cultural and inoculation methods. Elementary glass blowing, colorimetry, chromatography, etc. Methods of reviewing literature and preparing illustrations.

F. 9:30—B110; Lab. F. 1:30, 3:30—B110, B114. *Professor Pelletier*

331a. DISEASES OF PLANTS

A study of common diseases, with emphasis on disease expression, causation, ecology, and principles underlying disease control.

Th. S. 8:30—B110; Lab. Tu. 1:30, 3:30—B110. *Professor Coulson*

MACDONALD COLLEGE

332b. PLANT PATHOLOGY I

Detailed studies of plant diseases; distribution, economic importance, symptoms, cause, and control.

Myxomycetous, phycomycetous, ascomycetous, nematode, and non-parasitic diseases, and dodder.

(Given in 1960-61.)

Professors Coulson and Estey

Tu. Th. 8:30—B110; Lab. M. 8:30, 10:30—B110.

333a. MYCOLOGY

An introductory course in the study of the fungi, emphasizing species which are common or economically important in Canada.

Tu. Th. 9:30—B110; Lab. Th. 1:30, 3:30—B110.

Professor Estey

434. PROJECTS

One or more problems entailing private investigation will be allotted each student.

Minimum of 2 Labs. per week—both terms.

Staff

435. SEMINAR

A course entailing reading, discussion, appreciation, and criticism of research articles, monographs, etc., in the field of General Botany, Physiology, Cytology, Histology, Morphology, Ecology, Taxonomy, Genetics, Mycology, Pathology. Attention will be more especially directed to such articles as have application in Plant Pathology or Mycology.

1 period per week—both terms.

Staff

436. PLANT PATHOLOGY II

Detailed studies of plant diseases; distribution, economic importance, symptoms, cause, and control.

Basidiomycetous, fungi imperfecti, bacterial, and virus diseases.

(Given in 1961-62.)

2 Lects.; 2 Labs. per week—both terms.

Professors Coulson and Estey

FRENCH

100. French is used exclusively by lecturer and students in this course.

(a) *Travail oral*: The aim of this section of the course is to increase fluency, accuracy, and precision in speaking French. Assignments vary according to the interests and capabilities of the students.

(b) *Cours de civilisation*: A survey course of French history; biographical and literary aspects are stressed.

GENETICS

Elective—3 Lects. per week—both terms.

Professor Hawkins and Mr. G. W. E. McElroy (Institute of Education)

Text Book: Douglas W. Alden, Ed., *Introduction to French Masterpieces* (Appleton-Century-Crofts).

300. Aim: practice in French for students who expect to work in Quebec Province; preparatory work for postgraduate students who intend to meet second language requirements in French. Emphasis will depend on needs of students enrolled. *Prerequisite:* Quebec High School Leaving French or equivalent. *Content:* writing, reading and oral practice.

Elective—2 Lects. per week—both terms.

Professor Hawkins (Institute of Education)

DEPARTMENT OF GENETICS

Professor J. W. BOYES

Associate Professor R. I. BRAWN

Assistant Professor W. F. GRANT

330a. ELEMENTARY GENETICS

The modern concept of inheritance, applicable to both plants and animals, including reference to human inheritance.

M. W. F. 10:30—A202; Lab. M. 1:30, 3:30—A230. *Professor Brawn*

Note: Genetics 62a, Cytology, Genetics 62b, Cytogenetics, Genetics 63b, Microbial Genetics, and Genetics 64b, Statistical Methods in Genetics, listed in the announcement of the Faculty of Graduate Studies and Research, are offered at Macdonald College and may be elected by senior undergraduate students by permission of the instructor concerned.

HISTORY

100. European civilization in medieval and modern periods.

DEPARTMENT OF HORTICULTURE

Associate Professors H. R. MURRAY
(Chairman of the Department)

C. D. TAPER

Assistant Professor JEAN DAVID

Lecturer P. M. HARNEY

MACDONALD COLLEGE

338. POMOLOGY (TREE FRUITS AND SMALL FRUITS)

A study of the general principles and practices of tree fruit and small fruit production, including geography, varieties, cultural practices, pruning, growth and fruiting habits, harvesting and marketing.

2 Lects.; 1 Lab. per week—both terms.

Professor Taper

(Given in 1961-62.)

340b. PLANT PROPAGATION

Principles and practices of plant propagation including the construction and management of propagating structures, the germination of seeds, rooting of cuttings, multiplication of bulbs and the propagation of plants by budding and grafting.

M. 9:30—A160; Lab. Tu. 1:30—A204.

Miss Harney

345a. HORTICULTURAL CROPS

A general course in horticulture for non-specialists covering the principles of fruit and vegetable production, storage and processing of horticultural crops, and the commercial production of ornamental plants.

M. W. F. 10:30—A160.

Professor Murray and Staff

431. VEGETABLE CROPS

The principles of vegetable growing including economic importance, geography, types and varieties, cultural requirements, and a survey of recent results of research as applied to the most important crop plants.

Professor Murray

M. 11:30, Tue. 10:30—A160; Lab. W. 3:30—A160—1st term.

M. 10:30, W. 10:30—A160; Lab. F. 3:30—A160—2nd term.

432a. LANDSCAPE ARCHITECTURE

Description, characteristics, and identification of ornamental plants, nursery practices and care of plant material. A brief history of gardens and architecture. Landscape design, plans, sketches, drafting, and construction specifications, as applied to rural and urban homes, estates, parks and playgrounds, etc.

Prerequisite:—Agricultural Engineering 439a.

M. W. 9:30—A230; Lab. Th. 1:30, 3:30—Horticulture Barn.

Miss Harney

435b. FLORICULTURE

An introductory course in the propagation, production and forcing of commercial florist crops. Careful consideration is given to the physiological factors governing the growth of plants under greenhouse conditions.

Prerequisite:—Botany 330b.

Tu. Th. 9:30—A160.

Miss Harney

MATHEMATICS

443a. STORAGE AND HANDLING OF HORTICULTURAL CROPS

The post-harvest chemistry and physiology of horticultural crops as they affect quality and marketability; handling methods at and after harvest; principles and practices in precooling, storage, transportation and packaging.

Prerequisite:—Botany 330b.

M. 8:30—A160; Lab. F. 3:30—A160.

Professor David

Text Book: Smock and Neubert, Apples and Apple Products.

444b. FRUIT AND VEGETABLE PROCESSING

The principles and practices of food processing with emphasis on canning, freezing and dehydration; survey of the newer methods of food preservation such as the use of radiation and antibiotics; quality control, grading and sanitation are discussed.

Tu. F. 10:30—A204; Lab. Tu. 3:30—A204.

Professor David

Text Book: Cruess, Commercial Fruit and Vegetable Products.

437. SEMINAR

Directed study on an approved problem requiring both oral and written presentations. In addition, each student will prepare and present a number of short talks on some general subject of interest to horticulturists. 1 period per week—both terms.

Professor Murray and Staff

MATHEMATICS

110. PLANT TRIGONOMETRY AND ALGEBRA

Radian measure, logarithms, definitions of the trigonometrical functions, relations between the trigonometrical functions, reduction of angles, addition formulae, transformations of sums and products, logarithmic solutions of triangles, problems in heights and distances, inverse functions, solution of trigonometric equations, graphs, variation, progressions, with applications to compound interest, permutations and combinations, mathematical induction, binomial theorem, theory of quadratic equations, equations of straight line and circle.

M. W. F. 12:30—B216.

Professor Henry (Institute of Education)

220. CALCULUS

Analytical geometry, differential and integral calculus.

Tu. Th. S. 8:30—C208.

Professor Rowles (Physics)

330. ELEMENTARY DIFFERENTIAL EQUATIONS

An introduction to differential equations with selection applications in physical, chemical, and biological science.

Tu. 8:30—C110.

Professor Carter (Physics)

MACDONALD COLLEGE

331. ELEMENTARY STATISTICS

An introduction to statistics including graphs, histograms, means, standard deviation, variance, normal frequency curve, probability, fitting curves to experimental data, correlation, standard error, tests of significance, etc.

W. 9:30—C208; Lab. S. 9:30—C208—1st term.

Lab. S. 9:30—C208—2nd term. *Professor Warkentin (Physics)*

NUTRITION

Professor

E. W. CRAMPTON

Associate Professor

L. E. LLOYD

Lecturer

E. DONEFER

430. FUNDAMENTALS OF NUTRITION

Lectures and library assignments deal with the nutrients and their metabolism. In the second term, as an alternate to the laboratory work, students, with permission, may elect to participate in one or more biological projects in which rats, puppies, guinea pigs and/or the students themselves are the experimental subjects. These projects, when offered, will be scheduled by arrangement.

M. W. 8:30—A202; Lab. F. 8:30—A202—1st term.

M. W. 8:30—A248; Lab F. 8:30—A248—2nd term.

Professors Crampton and Lloyd and Mr. Donefer

432b. APPLIED ANIMAL NUTRITION

A critical study of livestock feeding standards; a classification of feed-stuffs based on their functions in rations and a consideration of their characteristics which determine their use and limit the extent of their substitution; translation of feeding standards to balanced meal mixtures; feeding guides, feed legislation.

M. W. 9:30—A120.

Professor Crampton

433c. PROJECT. Credit—3 units.

Staff

DEPARTMENT OF AGRICULTURAL PHYSICS

Professor

WILLIAM ROWLES
(Chairman of the Department)

Assistant Professors

B. P. WARKENTIN
A. L. CARTER

112. GENERAL PHYSICS

An introductory course covering mechanics, heat, light, sound, electricity and magnetism at the first year college level. Fundamental principles are taught through demonstrations, laboratory work, and numerical examples.

Tu. Th. S. 10:30—C218—both terms; Lab. No. 1, Th. 1:30; No. 2, Th. 3:30; No. 3, Tu. 1:30; No. 4, Tu. 3:30—C214—1st term; C108—2nd term.

Professor Rowles

222. GENERAL PHYSICS

A continuation course which covers the same ground as Physics 112 but with more intensive treatment. Certain topics will receive special emphasis and additional phases of the subject will be considered.

M. W. F. 9:30—C110; Lab. No. 1, M. 1:30; No. 2, M. 3:30—C110, C112.

Professor Carter

333a. BIOPHYSICS

(Prerequisite to Chemistry 347b and 448b.) A study of the gas laws, osmosis, surface phenomena, electrolytic dissociation, pH, colloidal state, use of electron microscope, X-rays and radio-active rays in biology, etc.

M. F. 9:30—C218; Lab. No. 1, M. 1:30, 3:30; No. 2, W. 1:30, 3:30—C108.

Professors Rowles and Warkentin

340a. BIOPHYSICS

An abridged course covering selected parts of Physics 333a.

M. F. 9:30—C218; Lab. No. 1, W. 8:30—C108, No. 2, W. 1:30.

Professors Rowles and Warkentin

432b. METEOROLOGY

A study of the factors which condition climate and weather, etc.

M. 8:30—C124.

Professor Warkentin

436a. SOIL PHYSICS

Soil texture as determined by mechanical analysis, soil moisture and its movement, soil constants and their measurement, physical properties of colloids and their effects on soil behaviour, soil structure.

F. 8:30—C214; Lab.—to be arranged.

Professor Warkentin

438. MOLECULAR AND ATOMIC PHYSICS

A discussion of kinetic theory including Maxwell's distribution law, the laws of thermodynamics, atomic structure, charge on the electron, isotopes, circular orbit theory for hydrogen, vacuum tubes, X-rays and crystal structure, radioactivity, etc. A portion of the time is devoted to laboratory work.

Tu. Th. 9:30—C110.

Professor Carter

POULTRY HUSBANDRY

Associate Professors

N. NIKOLAICZUK
R. P. POIRIER

333a. GENERAL POULTRY HUSBANDRY

The general principles and practice of poultry production and marketing.
Tu. Th. 11:30; S. 8:30—P202; Lab. Tu. 3:30—P202.

Professor Nikolaiczuk

339b. POULTRY PRODUCTS TECHNOLOGY

Lectures, demonstrations, and reading assignments designed to familiarize the student with composition, market quality, processing, and technology of poultry products.

F. 10:30—P202; Lab. Tu. 1:30—P202.

Professors Nikolaiczuk and Poirier

431a. HISTORY OF BREEDS AND JUDGING

The origin, domestication, and development of the various breeds of chickens, turkeys, ducks, and geese. Advanced practice in judging on the basis of type and colour standards.

Lab. Th. 1:30, 3:30—P202.

Professor Poirier

(Given 1961-62.)

434b. BREEDING PRINCIPLES

The fundamental principles underlying poultry breeding.

Prerequisites:—Genetics 330a; Poultry Husbandry 431a and 333a.

2 Lects.; 1 Lab. per week—second term.

Professor Poirier

(Given 1961-62.)

435. POULTRY FARM MANAGEMENT

Poultry farming as a business; size of business, economic aspects of capital and labour involved; farm layout and buildings; arrangement; equipment, inventories, cost accounts, and other records.

Prerequisite:—Poultry Husbandry 333a.

M. 8:30—P202; Lab. M. 3:30—P202—1st term.

M. 8:30—P202; Lab. Tu. 3:30—P202—2nd term.

Professor Poirier

436. RESEARCH

A study of method in conducting experiments and analysis of data.

Prerequisite:—Poultry Husbandry 333a.

2 Labs. per week—both terms.

Professor Nikolaiczuk

437. ASSIGNED PROJECTS. Credit—6 units. *Professors Nikolaiczuk and Poirier*

EXAMINATIONS

438b. POULTRY NUTRITION

A study of the composition of feeds, balanced rations, and feeding practice as applied to the production of poultry.

Prerequisite:—Poultry Husbandry 333a or equivalent.
(Given in 1960-61.)

Tu. Th. 10:30—P202; Lab. Th. 1:30—P202.

Professor Nikolaiczuk

SOCIOLOGY

430c. INTRODUCTION TO SOCIOLOGY

An examination of the patterns of our society, with emphasis on group relationships. The course covers a general introduction to sociological theory, the social development of the individual, ethnic and class groupings, characteristics of urban and rural life, social change and institutional structures. *Elective.*

M. 10.30—M204; W. 10.30—M258; F. 10.30—M240 2nd term.

Mrs. MacFarlane

DEPARTMENT OF WOODLOT MANAGEMENT

Assistant Professor

A. R. C. JONES, *Chairman*

330a. WOODLOT MANAGEMENT

Principal trees of Eastern Canada; classification of forest regions, types and stands; use of chain, compass and sample plots in forest inventories; volume measurements of trees, logs and woodlot products; silvicultural cutting methods to improve and perpetuate the woodlot; study of growth; calculation of allowable cut for sustained yield; plantation techniques and improvements; woodlot protection; demonstration of mechanical cutting tools; management plans and records; marketing possibilities.

Tu. 8.30—B296. Lab. W. 1.30.

Professor Jones

EXAMINATIONS

B.Sc. (AGR.) AND B.Sc. (H.Ec.)

All students are required to give satisfactory evidence of mastery of the material of lecture and laboratory. Examinations are held at the end of the first term in First and Second years, and at the end of each course in all years. In final examinations the mark assigned represents the standing of the student in all the work of the course. Marks for seminars, projects, purely laboratory and similar courses may be assigned wholly or in part on the year's work.

Upon payment of a fee of \$10 a student may apply to the office of the Dean of the Faculty concerned to have an examination re-read.

First year students who obtain an average of less than 40 per cent in the first term examinations are not permitted to continue with the work of the second term.

In all other years, standing of all students as shown by the results of first term examinations is critically reviewed by Faculty. Any student whose average mark is less than 50% may be required to discontinue, with the privilege of re-registering in a succeeding session.

Examination in any subject may be refused because of absence without accepted excuse from one or more classes in the subject. See page 4525.

Students who are allowed to repeat a year do so on probation. Students whose work or conduct proves unsatisfactory may also be placed on probation involving loss of certain privileges. The type of probation will vary with individual cases.

ADVANCEMENT FROM YEAR TO YEAR

In the First and Second years any student who fails to obtain an average of at least 50% based on all courses of the year, or who fails in courses of the year's work to an aggregate value of more than 18 units, will be required to repeat the year. A student in these years who fails courses of the year's work to an aggregate value of 18 or less units, and whose average is at least 50%, must, in order to advance to the following year, write supplemental examinations in all failed courses during the September supplemental examination period prior to his re-registration in the Faculty.

No student who, because of failures in regular or supplemental examinations, has outstanding more than ten units of the work of the previous year may register in the Second or Third year. Students repeating ten or less units of the previous year's work shall be registered as "conditioned" students of the next year. Such students must pass the subjects in which they are conditioned before they can advance further.

Any Third year student who fails to obtain an average of 50% based on all the courses of his year will be required to repeat the year. No student may be registered in the Fourth year conditioned in more than eight units of the normal Third year work or who cannot for timetable or other reasons, carry a full Fourth year plus the work in which he is conditioned.

If a student fails a supplemental in a required repeated course, he will be required to withdraw. In the case of elective courses, it may be possible to substitute an alternative elective course for the failed elective, and so become eligible to proceed.

EXAMINATIONS

A student who has a record of two failed years will be required to withdraw.

A student who is required to withdraw for academic failure may be re-admitted to the Faculty if he applies for permission to write and passes a series of qualifying examinations as determined by Faculty, and to include his failed courses, at the spring examination period prior to his intended re-registration.

A student who is allowed to repeat a year will normally be granted credits in such courses as he has already passed, and in which he has obtained at least 60% in the examination. The student having such credits should, and will generally be required to, take additional courses of the succeeding year to make up a desirable course load. The choice of subjects must involve no conflict of hours in the time-table. Such courses, when passed, may be credited to the next year's work, but again the student will be expected to take extra courses sufficient to give him a reasonable course load.

If a student fails in a course which he has taken with a more advanced class he must repeat the course when he enters the year in which the subject is regularly taught.

ACADEMIC PROBATION

Academic probation may be imposed by the Faculty on any student whose progress and work are unsatisfactory. It is automatically imposed on all students repeating their year. A student on academic probation remains at the College on trial and must improve his standing or he will be required to withdraw. He is not eligible to hold student office, to play on College teams, or to participate in organized activities, such as dramatics, the Green and Gold, or the Winter Carnival, etc.

PASS AND HONOUR STANDING

HONOUR STANDING:—Students who have obtained an average of at least 60 per cent in the work of the first two years, and who obtain an average of 80 per cent or over, based on all the courses of their Third and Fourth years, are granted First Class Honours on graduation; those who obtain an average of from 65 to 79 per cent, based on all the courses of their Third and Fourth years, are granted Second Class Honours. Students who have obtained an average of less than 60 per cent in the work of the first two years are not eligible for Honours.

PASS STANDING:—Students who obtain an average of not less than 50 per cent, based on all the courses of their Third and Fourth years, are granted Pass Standing.

SUPPLEMENTAL EXAMINATIONS

Regular supplemental examinations are held in September before the beginning of the session; however, a student who is prevented by illness from writing at the regular supplemental period may apply for special examinations to be held at a later date.

A student who fails to pass a supplemental examination must repeat the course.

Candidates for a supplemental examination must make application for the examination at least three weeks prior to the examination date on forms available in the Registrar's Office. The fee is \$10.00 per paper.

The student passing a supplemental examination will be credited on his record with a pass, no mark being recorded.

AGRICULTURE SPECIALIST TEACHER'S CERTIFICATE

Holders of the B.Sc.(Agr.), in the General Agriculture, Agronomy, Animal Husbandry, Poultry Husbandry, Horticulture or Agriculture Engineering options may enroll for a year of postgraduate study under the direction of the Institute of Education to qualify for the Agriculture Specialist Teacher's Certificate granted by the University. Such a training will complete the requirements for the High School Diploma of the Province of Quebec and will include special training and teaching practice relative to the Agricultural Sciences.

There are openings for qualified teachers trained in agricultural science in the High Schools of Quebec and other provinces. As well as teaching agriculture, many appointments will require the teaching of other subjects including general specialized science, shop work and farm mechanics. Consequently candidates for the Specialist Teacher's Certificate receive training in general teaching as well as in their special subject areas. In addition to the academic and professional courses offered, an excellent program of supervised practice teaching gives candidates the opportunity of becoming familiar with the work of the schools. Candidates should have an interest in agriculture, an appreciation of rural life, some practical experience in farming, and a genuine interest in working with high school children.

The charge for the tuition is \$250.00, and other charges for room and board and for student activities are the same as for students in the Institute of Education. Application for admission should be sent to the Registrar, Macdonald College, Que.

CURRICULUM

ENTRANCE REQUIREMENT.—B.Sc.(Agr.), in the General Agriculture, Agronomy, Animal Husbandry, Poultry Husbandry, Horticulture, or Agriculture Engineering options.

COURSES IN THE INSTITUTE OF EDUCATION

- Division One — English 225—Modern Literature (if not completed during the B.Sc.(Agr.) course), terminal courses in English and French.
- Division Two — Education 100, Education 200—History of Education in Western Society, Education 401G—Graduate Seminar.
- Division Three — Education 110—Method of instruction, Education 210—The Child at School.
- Division Four — Education 120—General Teaching Practice.

GRADUATE COURSES

Graduate work, under the Faculty of Graduate Studies and Research, McGill University, Montreal, may be taken at Macdonald College, in Agronomy, Bacteriology, Chemistry, Entomology, Horticulture, Nutrition (Animal, Human), Parasitology, Poultry Husbandry (Nutrition or Breeding and Genetics), and Plant Pathology. The advanced courses of study offered lead to the degrees of Master of Science and Doctor of Philosophy.

Graduates who have completed three full courses or their equivalent in the Department of Economics at Macdonald College and who, in addition, have completed at least two full courses in the Department of Economics and Political Science or their equivalent with at least second class honours, may register in the Faculty of Graduate Studies and Research to proceed toward the degree of Master of Arts.

A number of scholarships and student assistantships are available.

The Faculty of Graduate Studies and Research issues an Announcement giving full information regarding graduate courses, and scholarships, theses, registration, etc., in connection therewith, which will be sent on application to the Dean of the Faculty of Graduate Studies and Research, McGill University, Montreal or to the Dean of the Faculty of Agriculture, Macdonald College, Que.

Diploma Course

This is a two-year course of about five and one-half months' duration each year. It commences about October 15th and finishes March 31st. This period is selected so as to interfere as little as possible with farm operations. The course is intensely practical in nature, having the following objectives:

- to provide the best possible training in modern agricultural practice;
- to equip the student to understand the problems of agriculture and to provide the knowledge required to approach their solution intelligently;
- to inspire the student with pride in farming and with a determination to work for its improvement; and
- to prepare the student for leadership in the rural community.

The work of the First year and the first term of the Second year is taken by all students in common. In the last term of the Second year certain courses are taken by all students, but each student must choose a special interest and take the additional group of courses specified by the Department of his choice. Groups of courses are offered for those with special interests in Livestock Farming, Agronomy, Horticulture and Poultry. The student must state his interest on the registration form at the beginning of the Second year, but is strongly advised to make his choice before the end of the First year and to consult with the chairman of the Department concerned. In the event that too few students select any one group in any year, the courses of that group may not be offered in that year.

DIPLOMA COURSE ENTRANCE

1. For general requirements, see page 4533.
2. Students must have passed their seventeenth birthday before commencing the course. The educational requirement is Grade IX or its equivalent. Students should have a good practical knowledge of farming, either coming from a farm or having worked for at least one full season on an approved Eastern Canadian Farm.

SYLLABUS
DIPLOMA COURSE

	Course Numbers	Unit Value	Periods per Week		Term Taken
			Lects.	Labs.	
FIRST YEAR					
Agricultural Engineering					
Agricultural Mechanics.....	11	10	3	2	Both
Agonomy					
Soils and Soil Management.....	11a	3	3	..	First
Grain and Miscellaneous Crops.....	19b	3	2	1	Second
Animal Husbandry					
Farm Livestock.....	11	8	2	2	Both
Bacteriology.....	11b	2	1	1	Second
Biology					
Agricultural Botany.....	11a	3	2	1	First
Zoology.....	13a	3	2	1	First
Chemistry.....	11b	3	2	1	Second
Economics.....	17b	3	3	..	Second
English.....	12	6	3	..	Both
Farm Forestry.....	11a	3	1	2	First
Horticulture					
General Horticulture.....	15b	4	3	1	Second
Mathematics.....	11	4	2	..	Both
Physical Training.....	11	4	..	2	Both
Poultry Husbandry					
Poultry Production.....	11	4	1	1	Both
SECOND YEAR					
Agricultural Engineering					
Agricultural Mechanics.....	21	10	3	2	Both
Agonomy					
Weeds and Weed Control.....	21a	3	2	1	First
Hay and Pasture Crops.....	23a	4	3	1	First
Animal Husbandry					
Farm Livestock.....	26	8	2	2	Both
Economics					
Farm Accounting and Management.	28a	4	3	1	First
English.....	27	4	1	1	Both
Extension Methods.....	21b	1	..	1	Second
Nutrition					
Feeds and Feeding.....	26a	2	2	..	First
Physics.....	26a	3	1	2	First
Project.....	26	4	..	2	Both
Additional Courses required by groups					
Livestock Farming Group					
Agonomy					
Crop Management.....	27b	3	2	1	Second
Dairying.....	26b	4	2	2	Second
Animal Diseases.....	26b	3	2	1	Second
Animal Husbandry					
Livestock Breeding.....	27b	2	2	..	Second

MACDONALD COLLEGE

SYLLABUS DIPLOMA COURSE

	Course Numbers	Unit Value	Periods per Week		Term Taken
			Lects.	Labs.	
<i>Agronomy Group</i>					
Agronomy					
Seed Production	22b	3	2	1	Second
Crop Management	27b	3	2	1	Second
<i>Horticulture</i>					
Vegetable Cash Crops	22b	3	2	1	Second
<i>Biology</i>					
Pest Control	21b	2	2	..	Second
<i>Horticulture Group</i>					
Biology:					
Pest Control	21b	2	2	..	Second
<i>Horticulture:</i>					
Commercial Handling	21b	3	2	1	Second
and any two of:					
Vegetable Cash Crops	22b	3	2	1	Second
Fruit Cash Crops	23b	3	2	1	Second
Ornamental Horticulture	24b	3	2	1	Second
<i>Poultry Group</i>					
Animal Diseases	26b	3	2	1	Second
<i>Biology</i>					
Pest Control	21b	2	2	..	Second
<i>Poultry</i>					
Poultry Management	26b	3	2	1	Second
Poultry Production	27b	4	2	2	Second

DESCRIPTION OF DIPLOMA COURSES

Courses designated "a" are given in first term only.

Courses designated "b" are given in the second term only.

Courses with no letter designation continue throughout both terms.

AGRICULTURAL ENGINEERING

11. AGRICULTURAL MECHANICS

Composed of three sections—Farm Machinery, Farm Power Machinery, and Farm Buildings.

FARM MACHINERY SECTION—Lectures: study of machines on farm, field and in barns, as feed grinders, mixers, elevators, dairy equipment, etc. Lab work: field tests to show effectiveness of adjustment, draft of machines, overhaul of machines.

Professor Malloch

DIPLOMA COURSES

FARM POWER MACHINERY SECTION—Lectures: Gas and Diesel engines as in farm tractor, importance and care of various systems, effects of adjustments, electric motors. Laboratory: testing power output, overhaul tractor engines, and electric motors.
Professor Cooper

FARM BUILDINGS SECTION—Lectures: farmstead layout, importance of various buildings in different types of enterprise. Study of various buildings and structural equipment (ventilation, etc.) Lab.: Use of hand and power woodworking tools, concrete work, wood treatment and protection.

Tu. Th. S. 10:30—E10; Lab. T. 1:30, 3:30—E10—both terms.

Professors Banting and Malloch

21. AGRICULTURAL MECHANICS

Composed of four sections—Surveying, Drainage, Rural Sanitation, Farm Shop.

SURVEYING SECTION—Lectures: Theory of measuring and levelling. Labs.: Practise work using chain and levels.
Professor Banting

DRAINAGE SECTION—Lectures: Importance of underdrainage, and practical application of theory of drainage, open ditch work, farm pond design, irrigation. No Labs.
Professor Banting

RURAL SANITATION SECTION—Lectures: Sources of water, contamination, and treatment, pumps and systems, sewage disposal. Labs.: simple plumbing problems.
Professor Banting

FARM SHOP SECTION—Lectures: Safety of operations, use of tools, some theory where desirable. Labs: Metal working in forge, oxy-acetylene and electric welding, filing, tapping, drilling, threading, soldering, etc.

Tu. Th. S. 9:30—E106; Lab. F. 1:30, 3:30—E2, E4—both terms.

Professor Cooper

AGRONOMY

11a. SOILS AND SOIL MANAGEMENT

Classes of soil, tillage, rotation, manure, fertilizer, lime, drainage, etc. will be studied with a view to enabling the student to manage the soil on his own farm to best advantage.

M. W. F. 12:30—A202.

Professor Bubar

19b. GRAIN AND MISCELLANEOUS CROPS

These crops will be studied from the standpoints of their importance, variety, culture and management.

M. F. 12:30—A202; Lab. Th. 1:30—A230.

Professor Klinck

MACDONALD COLLEGE

21a. WEEDS AND WEED CONTROL

Weeds will be studied from the standpoint of their relative importance as crop contaminants, their control by chemical and cultural means. Each student is required to make a collection of 20 farm weeds, suitably mounted. This collection will be used in the laboratory.

Tu. Th. 8:30—A204; Lab. Th. 3:30—A230.

Mr. Keeler

22b. SEED PRODUCTION

The problems of production of seed of agronomic crops; cleaning of seed; special attention to pedigreed seed, Acts and Regulations governing seed.

Tu. Th. 8:30—A248; Lab. Th. 3:30—A248.

Mr. Keeler

23a. HAY AND PASTURE CROPS

These crops will be studied from the standpoints of their importance, variety, culture, management and preservation.

M. W. F. 8:30—A248; Lab. Th. 1:30—A230.

Professor Bubar

27b. CROP MANAGEMENT

Factors determining the crops to grow, cropping schemes for typical situation in Eastern Canada.

M. W. 8:30—A248; Lab. M. 1:30—A248.

Professor Steppeler

ANIMAL HUSBANDRY

11. FARM LIVESTOCK

Commercial types and classes of farm stock, their care and management, feeding, breeding and judging.

M. F. 9:30—A146; Lab. M. 1:30, 3:30—Barn.

Professors Hamilton and Moxley

26. FARM LIVESTOCK

A continuation of course 11, but dealing particularly with purebred stock.

W. F. 10:30, A146—1st term; W. F. 10:30—A202; Lab. W. 1:30, 3:30—Barn—2nd term.

Professors Hamilton and MacDonald

27b. LIVESTOCK BREEDING

In this course the more important basic principles underlying breeding practice are considered. Selection of breeding animals is studied in the light of what is known in regard to reproduction, transmission of characters, heredity, and environment.

Tu. Th. 10:30—A202.

Professor Moxley

DIPLOMA COURSES

ANIMAL DISEASES

26b. The course covers situations usually encountered by farm managers and herdsmen.

Tu. Th. 8:30—B202; Lab. Tu. 3:30—B202 and B248.

Professor Dale

BACTERIOLOGY

11b. AGRICULTURAL BACTERIOLOGY

Bacteria in relation to water, sewage, milk, and soil fertility; fermentations, food preservation and food poisoning.

M. 8:30—B202; Lab. Th. 3:30—B118, B202.

Professor Knowles

BIOLOGY

11a. AGRICULTURAL BOTANY

The course consists of a study of the fundamentals of growth and reproduction processes in plants. The botany of economic plants will be studied as much as possible and consideration given to weeds and weed seeds and their control.

Tu. Th. 9:30—B196; Lab. W. 1:30—B196.

Professor Pelletier

13a. ZOOLOGY

An elementary treatment of (1) mammalian structure and physiology and (2) the structure, behavior, habits and classification of insects, and the general principles of pest control.

Tu. Th. 12:30—B202; Lab. W. 3:30—B204.

Professor Morrison

21b. PEST CONTROL

The student prepares, under supervision, notes on the recognition, habits and control of 20 or more pests of crops or animals of special interest to him.

Lab. Th. 1:30—B112.

Professors Estey and Morrison

CHEMISTRY

11b. Elementary Chemistry, with applications to soils, fertilizers, feeding stuffs, and insecticides and fungicides.

Tu. Th. 12:30—C228; Lab. F. 1:30—C126.

Mr. Henneberry

DAIRYING

26b. A study of the composition of milk, the production of quality milk on the farm, pasteurization, butter and cheese processes. Testing dairy products, separating milk, butter and cheese making.

W. F. 9:30—A204; Lab. Th. 1:30, 3:30—A106. *Professor Anastassiadis*

ECONOMICS

17b. INTRODUCTION TO THE ECONOMICS OF CANADIAN AGRICULTURE

Science and economics. Nature of the Canadian economy. The place of agriculture in the Canadian economy. Land use and tenure in Canada. The production, marketing, and consumption of farm products in Canada—principles, products, and problems. One lecture period each week will be used as a discussion period.

Tu. Th. S. 9:30—A248.

Professor MacFarlane

28a. FARM ACCOUNTS AND FARM MANAGEMENT

A system of single entry farm accounts involving inventories, cash receipts and expenses; a system of production records; the analysis of farm account and production records as a means of improving efficiency of production; farm income tax. A study of the economic guides to farm management decisions. A farm visit followed by (1) detailed study of the farm visited, and (2) the development of alternative farm management plans using the budget method.

M. W. F. 9:30—E106.

Professor Haver

ENGLISH

The students will be divided into a Senior and a Junior Group according to their attainments in English Speech and Literature.

12. Literature, written composition, and public speaking are included in the course.

M. W. F. 10:30—C208.

Mr. Godfrey

27. Lectures, laboratory work, including supervised reading course, instruction in practical forms of writing, and debating.

S. 8:30; Lab. M. 9:30, 10:30—M50.

Mr. Meir

EXTENSION METHODS

21b. EXTENSION METHODS

Parliamentary procedure; study group techniques; organizing and planning of meetings; operation of Junior Clubs; use of Visual aids; rural sociology; Laboratory periods include attendance at Rural Problems Club (See p. 4575).

To be arranged.

Professor Avison

FARM FORESTRY

- 11a. Principal trees of Eastern Canada and their silvicultural characteristics; woodlot protection; requirements of good forest communities. Volume estimates of trees, logs and pulpwood, measurement of lumber; use of

DIPLOMA COURSES

compass and pacing in woodlot cruising; calculation of annual cut; cutting methods as applied to even and uneven-aged forests; cultural measures to improve the woodlot; logging practices; reforestation, windbreaks and Christmas tree crops; marketing of products; management of maple groves.

M. 8:30—B296; Lab. Th. 1:30, 3:30—Arboretum.

Professor Jones

HORTICULTURE

15b. GENERAL HORTICULTURE

A general course dealing with the principles of farm horticulture including the farm garden, the improvement of the home surroundings, potato production, the farm orchard and small fruit plantations, and home storage.

Tu. Th. S. 8:30—A160; Lab. W. 1:30—A160.

Professor Murray and Staff

21b. THE COMMERCIAL PACKAGING, HANDLING, AND STORAGE OF HORTICULTURE PRODUCTS

Storages and storage practices. Canning, quick freezing and other means of food preservation will be considered.

W. F. 9:30—A160; Lab. Th. 3:30—A160.

Professor David

22b. VEGETABLE CASH CROPS

The production of potatoes for table stock, and for processing; the production of canning crops such as peas, beans, sweet corn, and tomatoes. The possibilities offered by the consumer market for first day fresh sweet corn and early tomatoes will also be considered.

Tu. Th. 10:30—A160; Lab. Tu. 3:30—A160.

Professor Murray

23b. FRUIT CASH CROPS

The production of raspberries and strawberries for market and for processing.

M. W. 8:30—A160; Lab. Tu. 1:30—A160.

Professor Taper

24b. COMMERCIAL ORNAMENTAL HORTICULTURE

A consideration of commercial nurseries and nursery practices, turf farming, and the operation of garden centres.

Tu. Th. 8:30—A146; Lab. M. 1:30—A160.

Miss Harney

Students in the Horticulture Group must take 21b and any two of the following three courses—22b, 23b, 24b.

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MATHEMATICS

11. A review of elementary arithmetic; decimals, percentage, ratio and proportion, mensuration; agricultural problems.

W. F. 8:30—E106—1st term; W. 12:30, F. 8:30—2nd term.

Professor Banting

NUTRITION

- 26a. A study of common animal feedingstuffs and of their use in livestock feeding.

Tu. Th. 10:30—A146.

Professor Lloyd

PHYSICAL TRAINING

11. Compulsory for all first year Diploma students, the course offers practical skills, organizational data and the teaching methods for use in rural recreational programs. Emphasis is placed on Water Safety and swimming in which successful candidates may secure Red Cross Swimming Certificates.

To be arranged.

Mr. Pugh

PHYSICS

- 26a. An elementary course dealing with the fundamental principles of Physics and their application in agricultural practice.

M. 10:30—C110; Lab. Tu. 1:30, 3:30—C110.

Professor Carter

POULTRY HUSBANDRY

11. POULTRY PRODUCTION

The elements of poultry production to include breeding, feeding, and management practices as they pertain to chickens, turkeys, ducks and geese.

W. 9:30—P208; Lab. F. 3:30—P208.

Professor Nikolaiczuk

26b. POULTRY MANAGEMENT PROBLEMS

The economic significance of the various factors influencing production returns on the basis of poultry management.

Tu. Th. 10:30—P208; Lab. Th. 3:30—P202.

Professor Poirier

27b. SPECIALIZED POULTRY PRODUCTION

A course which directs emphasis to specialized poultry enterprises, viz: egg production, broiler production, turkey production and incubator procedure, including hatching egg production. (The laboratory period entails a student project chosen from the above specialized areas.)

W. F. 10:30—P202; Lab. M. 1:30, 3:30—P202.

Staff

PROJECT

26. Second year students are required to submit a project in the form of an essay and a questionnaire to be handed in not later than March 15th. The project work will comprise outlining in detail the present organization of a farm business and the crop and livestock practices used on the farm. This will include actual or carefully estimated farm costs, farm returns, and net income which might be expected under normal conditions from the present farm business. It will also comprise the development of an alternate farm plan aimed at improving the productivity and income of the farm. This will include a careful appraisal of the costs involved and a statement as to how and when the proposed changes are to be made. An analysis of the proposed plan indicating its advantages together with a compilation of the costs, returns, and net income, which might normally be expected during one year's operation under average conditions, is also required.

Questionnaire forms for organizing the necessary farm facts will be distributed before the close of the First year. They must be filled in during the summer and submitted as a part of the project.

2nd Year:—The equivalent of 2 labs. per week, 2 terms.

Supervising Committee: *Professor Banting (Chairman)*

Professors Cooper, MacFarlane, and Nikolaiczuk

DIPLOMA COURSE EXAMINATIONS

All students are required to give satisfactory evidence of mastery of the material of lecture and laboratory. Examinations are held at the end of the first term in all courses given and at the end of each course. The examiner will pass in to the Registrar the final mark giving the standing of each student in all the work of the course.

The pass mark in all examinations is 50 per cent. First Class standing is 80 per cent and over, Second Class standing is 65 to 79 per cent, Pass standing is 50 to 64 per cent. Credit in Physical Training 11 is based on regular attendance and satisfactory effort. A pass is required for the Diploma but no numerical mark will be assigned.

For purposes of evaluation a full course consists of two lectures and two laboratory periods per week for one term or its equivalent and is rated at 4 units. One lecture equals one laboratory period. More or less than full courses are rated proportionately. Students conditioned in papers of an aggregate value of 10 units or less are required to write supplemental examinations in those subjects. Students conditioned in papers having an aggregate value of more than 10 units are considered as having failed in the year's work.

Students who fail in the First year of the Diploma Course in Agriculture are not permitted to repeat the year, except by special action of the Faculty.

A student who is allowed to repeat a year may, by special permission be exempted from attending lectures and passing examinations in one or more subjects in which he has already passed creditably and be required to take one or more subjects of the following year in his course. The choice of subjects must involve no conflict of hours in the time table.

Examination in any subject may be refused because of absence without accepted excuse from one or more classes in the subject. See page 4525.

REGULAR SUPPLEMENTAL EXAMINATIONS

A regular supplemental examination is a first supplemental examination in a subject.

Regular supplemental examinations are held immediately preceding opening of lectures in October, and following the sessional examinations in the spring.

A first supplemental examination in a subject, not involving the preparation of a special paper, may also be arranged in conjunction with the regular sessional examinations.

SPECIAL SUPPLEMENTAL EXAMINATIONS

Supplemental examinations taken at other times than those appointed, and supplemental examinations taken subsequent to a first supplemental examination, are special supplementals and must be arranged with the Registrar.

Every candidate for either a regular or a special supplemental examination is required to fill out an application form for such examination and to return it with the necessary fee (\$10.00 per paper) at least three weeks before the examination begins. Application forms may be obtained from the Registrar.

No student writing a supplemental examination in a subject shall be granted marks higher than the required pass mark—i.e., 50%.

SPECIAL NOTE RE TRANSITION YEAR

The Syllabus and Curriculum outlined on pages 4593 to 4601 represent considerable change from the curriculum in effect in the year 1959-60. Only the First year of the Diploma Course will follow this Syllabus and Curriculum in 1960-61. The Second year will follow the Syllabus and Curriculum outlined in the Announcement of 1959-60 on pages 4590 to 4599.

B.Sc. (H.Ec.) Course

This is a four year professional course for women leading to the degree of Bachelor of Science in Home Economics. The training enables the graduate to undertake positions in many of the different branches of Home Economics, including dietetics and the teaching of Home Economics in schools.

Students who wish to qualify for a teaching certificate in Home Economics must decide before entering the Fourth year, since this specialist training is given during the last year. Properly qualified students may be granted an Interim First Class Certificate (Home Economics Division) for teaching Household Science subjects, on graduation. This certificate is granted by the Protestant Central Board of Examiners of the Province of Quebec and only those students who may legally teach in the Protestant Schools of this Province should attempt to qualify for this certificate. Those desiring to apply for the certificate will be required to observe and teach in the elementary and secondary schools of the province for periods of time totalling not less than five weeks. It may be necessary to limit the number of students in the teaching option.

The practice of dietetics is the assuming of responsibility for the production of food in hospitals, institutions, and commercial restaurants, and opportunities to observe and practise kitchen administration are provided in the dining room of the staff residence at "Glenaladale" and in the main kitchen and cafeteria. Further training is offered by hospitals and commercial institutions after graduation.

The course also includes training in home management in a model house (the Stewart Home Management House), which is located on the campus. Here students live together, under supervision, and are responsible for all the household routines.

The four year course in Home Economics prepares students for professional careers as dietitians, home economics teachers, nutritionists, extension workers with government services, home economists in home service bureaus, and many other positions. In addition, it provides a general university education, and is of incomparable value as a background for homemaking.

CLASSES OF STUDENTS

1. *Regular Undergraduates* are students with complete matriculation qualifications and who are taking the regular work of their year toward the appropriate degree or diploma.

2. *Limited Undergraduates* are students with normal entrance qualifications but who, due to ill health or other circumstances, do not fit into the regular classification of years (first, second, etc.) and who may be unable to complete their work in the normal length of time.
3. *Partial Students* are those not proceeding to a degree or diploma, including those doing a qualifying year for graduate work, or those earning credits for transfer to another faculty or institution.
4. *Conditioned Students* are students who have failed courses of the previous year, but who are not required to repeat this year. They may be registered as conditioned students in the next year, but required to repeat all failed courses of the previous year, and take such other courses as do not involve time-table conflicts.

Conditioned students are on academic probation, and may be required to withdraw if their work continues to be unsatisfactory.

5. *Repeating Students* are those students who, because of failures, are required to repeat their year. They are on academic probation, and may be required to withdraw if their work continues to be unsatisfactory. Repeating students are not eligible to hold student offices.

ENTRANCE REQUIREMENTS

1. General Entrance requirements have been set out on page 4533.
2. Academic requirements: Admission is at the discretion of a faculty committee. The Committee accepts as a general standard the McGill School Certificate. The minimum requirement for consideration under this Certificate is that the candidate must have passed (obtained 50 per cent or more) in each of the subjects specified below, with a minimum of 10 papers. An average standing of not less than 65% in the 10 papers is required.

<u>Papers</u>	<u>Required Subjects</u>
1	English Literature
1	English Composition
1	History
1	Elementary Algebra
1	Elementary Geometry
	plus the following
1	One of Physics, Chemistry, or Biology
2	Two papers (i.e. Oral and Written or Grammar and composition in one of French, Latin, German, Spanish)

- 2 Two additional papers chosen from
- (a) the foreign language not already chosen
 - (b) the sciences not already chosen, i.e., Physics, Chemistry, Biology
 - (c) Intermediate Algebra, Trigonometry, Geography, North American Literature, Household Science, Art or Music.

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The following certificates are accepted in lieu of the McGill Junior School Certificate provided:

1. The certificate has been obtained under no easier conditions than those applying to the McGill Junior School Certificate; and
2. The subjects presented and the average standing obtained on such certificates conform generally to those listed above for the McGill Junior School Certificate:

Quebec: The High School Leaving Certificate
The Catholic High School Leaving Certificate

Ontario: Grade XII Certificate (including a statement of marks received in both Grades XI and XII)

British Columbia and New Brunswick: Junior Matriculation

Alberta, Manitoba, Newfoundland, Nova Scotia and Saskatchewan:
Grade XI Certificate

Prince Edward Island: Second Year Certificate of Prince of Wales College

United States: Certificates issued by the College Entrance Examination Board

United Kingdom: For the General Certificate of Education, a minimum of passes in five acceptable subjects at the Ordinary level, including English and Mathematics; for the School Certificate, credit or higher standing in at least five acceptable subjects including English, Mathematics, a foreign language

Students intending to enter by certificate should in no circumstances come to the College without having obtained from the Registrar a statement of the value of the certificates they hold.

Students with incomplete requirements may obtain standing in subjects included in the McGill School Certificate by writing McGill examinations.

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A candidate may be admitted to the Second year if (1) she has completed all requirements for entrance to the First year and (2) has written and passed with acceptable standing the required papers of the McGill Senior School Certificate Examination. These are:

English Literature
English Composition
Algebra
Trigonometry
Physics
Chemistry
Biology or a foreign language

Students without equivalent standing for Botany are required to take Botany 110 as an extra course in the Second year. First year or Senior Matriculation Biology, or a foreign language, will be accepted in lieu of Botany 110.

The following certificates are accepted in lieu of the McGill Senior School Certificate:

Quebec: Senior Quebec High School Leaving Certificate
Senior Catholic High School Leaving Certificate

Ontario: Grade XIII Certificate

Alberta, Manitoba, Nova Scotia and Saskatchewan: Grade XII Certificate

Prince Edward Island: Third Year Certificate of Prince of Wales College

British Columbia: Senior Matriculation Certificate

United Kingdom: For the General Certificate, passes in five subjects at Ordinary Level, plus Physics and Chemistry at Advanced Level.

APPLICATION FOR RESIDENCE ACCOMMODATION

See under "Residence", page 4521.

SYLLABUS

B.Sc.(H.Ec.) COURSE

SUBJECTS	Course Numbers	* Unit Value	Periods per week		Term Given
			Lects.	Labs.	
FIRST YEAR					
**Biology					
General Biology.....	120	10	3	2	Both
Chemistry:					
Inorganic Chemistry.....	110	10	3	2	Both
English:					
Composition.....	114	4	1	1	Both
Literature.....	116	4	2	..	Both
Household Science:					
Introduction to Household Science	110a	3	3	..	First
Mathematics:					
Plant Trigonometry and Algebra..	110	6	3	..	Both
Physics:					
General Physics.....	112	8	3	1	Both
Physical Education.....	110	Minimum 2 hours weekly			
Textiles:					
Laundring.....	110b	3	2	1	Second
SECOND YEAR					
Bacteriology:					
General Microbiology.....	330b	4	2	2	Second
Chemistry:					
Organic Chemistry.....	220	10	3	2	Both
Clothing:					
Clothing Construction.....	230	6	..	3	Both
Economics:					
Elementary Principles.....	220b	3	3	..	Second
***English:					
Modern Literature.....	225	4	2	..	Both
or					
Speaking and Writing.....	226	4	2	..	First
Foods:					
Basic Foods.....	226	6	1	2	Both
Food Selection.....	220a	3	3	..	First
Household Administration.....	220	3	1	..	First
Nutrition:					
Elementary Nutrition.....	220	3	1	..	First
Zoology:					
Intermediate Zoology.....	230a	4	2	2	Second

*1 Unit=1 lecture or 1 2-hour lab. per term.

**First year or Senior Matriculation Biology will be accepted in lieu of Biology 120.

***Second year students must take either English 225 or English 226.

See also elective courses in French and History, pages 4580-1.

SYLLABUS

B.Sc.(H.Ec.) COURSE

SUBJECTS	Course Numbers	Unit Value	Periods per week		Term Given
			Lects.	Labs.	
THIRD YEAR					
Art:					
Interior Decoration	300a	3	2	1	First
Chemistry:					
Biochemistry (General).....	332a	4	2	2	First
Physiological Chemistry.....	347b	4	2	2	Second
Foods:					
Advanced Foods.....	332	{ 6	2	1½	First
		{ ..	1	1½	Second
Home Economics Education:					
Educational Psychology.....	330c	3	3	..	Either
Household Administration:					
Home Management.....	331c	{ 4	1	..	First
		{ ..	..	3	Either
Physics:					
Biophysics.....	340a	2	1	1	First
Physiology:					
Elementary Physiology.....	330b	3	3	..	Second
Sociology:					
Introduction to Sociology.....	340c	3	3	..	Either
Textiles:					
Textiles.....	330	{ 6	3	..	First
		{ ..	2	1	Second

FOURTH YEAR

GENERAL HOME ECONOMICS

Is designed for students who wish to obtain a general background in home economics which may be directed toward business or other professional positions.

SUBJECTS	Unit Value	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
*Child Psychology 400c	3	3	(either term)		
Bacteriology:					
*Bacteriology 434b	4	..	..	2	2
Chemistry:					
*Food Chemistry 451a	4	2	2	..	..
*Textile Chemistry 450a	4	2	2	..	..
Clothing:					
Clothing 440	6	..	3	..	3
Home Economics Education					
Demonstration Techniques 442c ..	3	..	3	(either term)	
*Extension Methods 330	4	1	1	1	1
Methods of Teaching 441a .....	..3	2	1	..	..
Foods:					
Experimental Foods 434a	3	1	2	..	..
Institutional Administration:					
School and Group Feeding 446b ..	3	..	..	3	..
Nutrition:					
Fundamentals of Nutrition 430 ..	6	2	1	2	1

*Candidates are required to choose 2 of the 3 courses.

**Candidates are required to choose one of these two courses.

DIETETIC OPTION

Meets the academic requirements for entrance to the professionally sponsored internship courses required for membership in the dietetic associations. Hospitals and food service organizations offer graduates careers in administrative or therapeutic dietetics. Opportunities to observe and practice kitchen administration are provided in the dining room of the staff residence and in the kitchen and cafeteria on the campus. The option also provides basic preparation for research in foods and nutrition.

SUBJECTS	Unit* Value	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
1 of the 2 following is required:					
Bacteriology:					
Bacteriology 434b.....	4	..	..	2	2
Chemistry:					
Food Chemistry 451a.....	4	2	2	..	..
Remainder are required:					
Home Economics Education:					
Methods of Teaching 441a	3	2	1	..	..
Foods:					
Experimental Foods 434a.....	3	1	2	..	..
Institutional Administration:					
Quantity Food Service 441.....	2	..	2	(either term)	
Organization and Management					
442b.....	3	..	..	3	..
Principles of Accounting 443b.....	3	..	..	3	..
Personnel Management 444a.....	3	3	..	..	..
Kitchen Planning 445a.....	3	3	..	..	..
Nutrition:					
Fundamentals of Nutrition 430....	6	2	1	2	1
Diet Therapy 441.....	4	2	..	1	1
Nutrition and Diet Therapy					
Seminar 443.....	1	1	..	1	..

*1 Unit = 1 lecture of one hour or 1 2-hour lab. per term.

HOME ECONOMICS EDUCATION OPTION

Qualifies a student for an Interim First Class Certificate (Home Economics Division) granted by the Protestant Central Board of Examiners of the Province of Quebec. Only those students who may legally teach in the Protestant Schools of this Province should enroll in this Option. Those who enroll for the certificate will be required to observe and teach in the elementary and secondary schools of the Province for periods of time totalling not less than five weeks in the Fourth year.

SUBJECTS	Unit* Value	1st Term		2nd Term	
		Lects.	Labs.	Lects.	Labs.
Child Psychology 400c.....	3	3	(either term)	..	..
Chemistry:					
Textile Chemistry 450a.....	4	2	2	..	..
Clothing:					
Clothing 440.....	6	..	3	..	3
Home Economics Education:					
General Education Practice 411...	3	3	..	..	..
Methods of Teaching 440a.....	3	3	..	..	..
Demonstration Techniques 442c..	2	..	2	(either term)	..
Observation and Practice					
Teaching 443.....	4	..	2	..	2
Problems in Home Economics					
Education 453b.....	3	..	..	3	..
Institutional Administration:					
School and Group Feeding 446b...	3	..	..	3	..
Nutrition:					
Fundamentals of Nutrition 430...	6	2	1	2	1

*1 Unit = 1 lecture of one hour or 1 2-hour lab. per term.

DESCRIPTION OF COURSES

ART

300a. INTERIOR DECORATION

A survey of historical periods in domestic architecture, interiors and furnishings; the theory of colour, harmony and design with practical application to contemporary problems.

2 Lects.; 1 Lab. per week—first term.

Professor Jaques (Institute of Education)

(Not offered in 1960-1961.)

BACTERIOLOGY

330b. GENERAL MICROBIOLOGY

General introduction to microbiology; elementary principles of microbial morphology and physiology; relation of micro-organisms to fermentations, food, dairy, water, sewage, soils and disease.

Tu. Th. 9:30—B216; Lab. M. 3:30, W. 9:30—B118.

Professor Blackwood

Text Book:—Pelczar and Reid, Microbiology.

331a. BACTERIOLOGY

A course in general and food bacteriology.

W. F. 11:30—B118; Lab. Tu. Th. 11:30—B118.

Text Book:—Krueger, Principles of Microbiology.

434b. FOOD MICROBIOLOGY

The microbiological examination of food and of the fermentation involved in small scale and industrial processes. Principles of preservation, food poisoning, and intestinal microbiology.

M. W. 9:30—B202; Lab. M. F. 10:30,—B118.

Professor Knowles

BIOLOGY

120. GENERAL BIOLOGY

The structure and functions of living organisms; how they live and perpetuate themselves in relation to their environment. Protoplasm, cells, tissues, organs, systems; metabolism, nutrition, perception, growth, reproduction, inheritance; ecology and evolution of plants and animals. Emphasis is placed on the higher animals and flowering plants, but surveys of both plant and animal kingdoms are included.

M. W. F. 8:30—B216; Lab. Th. 1:30, 3:30—B212.

Professor Morrison or Professor Callen

CHEMISTRY

110. INORGANIC CHEMISTRY

Text Book:—Cragg and Graham, *An Introduction to the Principles of Chemistry* (Clarke, Irwin).

Tu. Th. S. 8:30—C218; Lab. M. 1:30, 3:30—C116. *Mr. Henneberry*

220. ORGANIC CHEMISTRY

Fundamental concepts of organic chemistry; properties and structure of related aliphatic, aromatic and the simpler heterocyclic compounds. Laboratory work includes preparation and examination of typical organic compounds.

M. Tu. Th. 11:30—C218; Lab. W. 1:30, 3:30—C226. *Professor Baker*

Text Book:—Wertheim, *Textbook of Organic Chemistry* (Blakiston).

332a. GENERAL BIOCHEMISTRY

Carbohydrates; lipids; amino-acids and proteins; properties, nature, and classification of enzymes.

M. F. 8:30—C218; Lab. F. 1:30, 3:30—C116. *Professor Common*

Text Book:—Downes, *The Chemistry of Living Cells* (Harper & Bros.).

347b. PHYSIOLOGICAL CHEMISTRY

Alimentary digestion and absorption of nutrients; composition and properties of blood; gaseous exchange and acid base equilibrium; intermediate metabolism of nutrients and tissue respiration; urinary and fecal excretion; hormones.

Laboratory work parallels the lecture course and includes blood and urine analysis.

Prerequisites: Chemistry 332a and Physics 333a.

Tu. Th. 11:30—C228; Lab. F. 1:30, 3:30—C116. *Professor Common*

Text Book:—Downes, *The Chemistry of Living Cells* (Harper & Bros.).

450a. TEXTILE CHEMISTRY

Relationships between current theories of molecular structure of natural and man-made fibres and their behaviour in use. Chemical reactions involved in the manufacture and maintenance of textiles. Detection of physical and chemical degradation in fibre and fabric, effect of chemical finishes.

M. W. 9:30—M212; Lab. W. 1:30, 3:30—M212. *Professor Jenkins*

451a. CHEMISTRY OF FOODS AND FEEDING STUFFS

Principles of analysis, including a more detailed treatment of sugars, starches, oils, and fats; analytical chemistry of milk and milk products.
Elective.

Tu. Th. 8:30—C228; Lab. Th. 1:30, 3:30—C124.

Professors Common and Anastassiadis

CLOTHING

230. CLOTHING

Principles and techniques of clothing construction with selection and use of commercial patterns. Problems presented by various fabrics. Organization of construction procedures.

3 Labs. per week—both terms.

Professor Jenkins

(Not offered in 1960-61.)

330. PRINCIPLES OF CLOTHING CONSTRUCTION

Three garments are made, one each of cotton, wool and rayon.

Required of Second and Third year students in 1960-1961.

2nd year.—M. or Th. 1:30, 3:30—M210, —1st term;

Th. or F. 1:30—M210—2nd term.

3rd year.—Tu. or Th. 1:30—M312—1st term;

Tu. or Th. 1:30, 3:30—M312—2nd term. *Professor Jenkins*

440. ADVANCED CLOTHING

Theory and practices of draping and flat pattern drafting to develop understanding of clothing construction. Creation of original design from sketches by means of draping and drafting. Principles and techniques of tailoring, construction of tailored garments.

M. 1:30, 3:30; F. 2:30—M312.

Professor Jenkins

ECONOMICS

220b. ELEMENTARY PRINCIPLES

The anatomy of the Canadian economy, especially the agricultural, household, and governmental segments. The business firm and the industry; price and output. Money; the Canadian banking system; national income and employment. The distribution of wealth and income. International trade.

M. W. F. 8:30—C218.

Professor MacFarlane

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ENGLISH

114. ENGLISH COMPOSITION

Instruction and practice in the elements of good speech and good writing. A student failing in the year's work will be required to repeat this course until the necessary standard has been attained.

F. 9:30; S. 10:30—M258. *Messrs. Godfrey, Meir and Mrs. Dubreuil*

116. ENGLISH LITERATURE

A study of the forms of literature—mainly poetry, fiction, drama, from Anglo-Saxon times to about 1880—with special attention to those factors which condition literary taste and judgment. A schedule of topics and readings will be available before the course begins.

Tu. Th. 12:30—Assembly Hall.

Mrs. Dubreuil, Messrs. Godfrey and Meir

225. MODERN LITERATURE

An extension of Course 116, with topics and readings drawn from the work of British, Canadian, and American writers in the period from 1880 to the present. This course may be elected by Third or Fourth year students.

W. F. 11:30—M258.

Professor Hall

226. SPEAKING AND WRITING

An extension of Course 114 for students who require or desire further practice in oral and written expression. Laboratory periods may be substituted for lectures. This course may be elected by Third or Fourth year students.

W. F. 11:30—M50, C110.

Mrs. Dubreuil

All Second year degree course students must take either English 225 or English 226. The prerequisite to these courses is successful completion of Senior Matriculation English Literature and Composition, or English 114 and 116 at Macdonald College.

332. MODERN DRAMA

A reading course in modern English and American drama with special attention to trends and developments since 1900. Not given for fewer than 5 students. *Elective.*

2 Lects. per week—first term; 1 Lect. per week—second term.

Professor Hall

EXTENSION METHODS

330. EXTENSION METHODS

Study group techniques; extension methods in agriculture and household science; rural sociology.

FRENCH

Laboratory work comprises participation in debates, conduct of public meetings and similar activities, and the planning and execution of projects for youth groups. Students who elect this course will also be required to take English 226, unless this course was taken in the Second year.

1 Lect.; 1 Lab. per week—both terms. *Professor Avison and Committee*
Time to be arranged.

FOODS AND COOKERY

220a. FOOD SELECTION

Study of the factors to be considered in the selection of foods including varieties, grading and marketing.

M. W. 8:30, F. 9:30—M204.

Miss Tucker

226. BASIC FOODS

Study of the composition and nutritive value of foods with the application of scientific principles to food preparation and cookery.

Study of, and practice in food preservation with five days of laboratory work preceding the session.

W. 10:30—M258; Lab. M. or Th. 1:30, 3:30—M252—1st term;

F. 9:30—M208; Lab. Th. or F. 1:30, 3:30—M252—2nd term.

Miss Tucker

332. ADVANCED FOODS

The Science and Art of advanced food preparation and service including an extensive study of the foods of peoples of other countries.

M. 10:30—M208, Th. 9:30—M258; Lab. Tu. or W. 1:30, 3:30—1st term.

Tu. 8:30—M258; Lab. M. or W. 1:30, 3:30—M250—2nd term.

Mrs. Zarkadas

434a. EXPERIMENTAL FOODS

Experience in experimental procedures. Development, execution, written and oral interpretation of an individual food problem.

W. 10:30—M204; Lab. M. Th. 10:30—M250, M256.

Professor Devereaux

FRENCH

100. French is used exclusively by lecturer and students in this course.

(a) *Travail oral*: The aim of this section of the course is to increase fluency, accuracy, and precision in speaking French. Assignments vary according to the interests and capabilities of the students.

(b) *Cours de civilisation*: A survey course of French history; biographical and literary aspects are stressed.

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Text Book: Doublas W. Alden, Ed., *Introduction to French Masterpieces* (Appleton-Century-Crofts).

Elective.

Professor Hawkins and Mr. G. W. E. McElroy (Institute of Education)

300. *Aim:* practice in French for students who expect to work in Quebec Province: preparatory work for postgraduate students who intend to meet second language requirements in French. Emphasis will depend on needs of students enrolled. *Prerequisite:* Quebec High School Leaving French or equivalent. *Content:* writing, reading and oral practice. *Elective.* 2 Lects. per week—both terms.

Professor Hawkins and Mr. G. W. E. McElroy (Institute of Education)

HISTORY

100. European civilization in medieval and modern periods. *Elective.*

HOME ECONOMICS EDUCATION

330c. PSYCHOLOGY

Nature and scope of educational psychology. A study of the aspects of behaviour and theories of learning. The application of psychology to the problems of education.

M. W. F. 9:30—M204—2nd term.

Professor Honey

411. GENERAL EDUCATION PRACTICE

Basic methods for teaching in elementary grades offered by the staff in the Institute of Education for students who select the Home Economics Education Option.

Time to be arranged with the Institute of Education.

Equivalent of 3 lectures per week, one term.

Professor Hall (Institute of Education)

440a. METHODS OF TEACHING

Philosophy of Education for Homemaking. Curriculum organization, lesson planning, teaching methods and media.

M. 11:30—M258; Tu. 8:30—M208; F. 10:30—M208. *Professor Honey*

441a. METHODS OF TEACHING

Principles of teaching applied to the selection, organization and development of subject matter for presentation to individuals and groups. Job instruction Training included.

Dietetic Option. General Option.

W. 11:30, F. 10:30—M204; Lab. Tu. 10:30—M256.

Professor Honey

HOUSEHOLD ADMINISTRATION

442c. DEMONSTRATION TECHNIQUES

Experience in planning, preparing and presenting demonstrations in foods, equipment, and clothing.

General Option: Tu. 2:30—M256—1st term; Tu. W. 2:30—M256—2nd term.

Teaching Option; Tu. 2:30—M256—1st term; Tu. 2:30—M256—2nd term.
Professor Honey

443. OBSERVATION AND PRACTICE TEACHING

Observation and practice teaching in Macdonald High School and in the schools of the Protestant School Board of Greater Montreal. Experience will also be arranged in rural schools when possible.

Thursday as arranged—both terms. *Professor Honey*

453b. PROBLEMS IN HOME ECONOMICS EDUCATION

Discussions and lectures on problems arising from classroom experience. Study of equipment for the Home Economics laboratory, methods of keeping necessary records, methods of evaluation.

M. 11:30—M258; Tu. 9:30—M208; F. 11:30—M208. *Professor Honey*

HOUSEHOLD ADMINISTRATION

220. HOUSEHOLD ADMINISTRATION

The principles of house planning, including the application of physics to electricity, plumbing, and heating. Detailed attention to kitchen planning from the standpoint of function, convenience and safety. Study of materials, design, use and care of furnishings, appliances, and utensils. Experience in planning and presenting equipment demonstrations.

Tu. 9:30—M204—1st term; Tu. 8:30—M204; Lab. M. 9:30—M208 or M. 1:30, 2:30—M208—2nd term. *Miss Tucker*

331c. HOME MANAGEMENT

A study of the process of home management; planning, carrying out the plan, and evaluating with practical application in a well-equipped house on the campus where groups of five students, under supervision, have charge of managing the home, including menu planning, preparation and service, marketing, accounting, and care of supplies, equipment, and furnishings.

Tu. 9:30—M258—1st term. 3 weeks in Home Management House—either term. *Professor Devereaux*

HOUSEHOLD SCIENCE

110a. INTRODUCTION TO HOUSEHOLD SCIENCE

Acquaintance with the Home Economics programme in College, development and scope of careers in Home Economics. Study methods and report preparation and writing.

M. W. F. 9:30—M258.

Mrs. Young

INSTITUTIONAL ADMINISTRATION

441. QUANTITY FOOD SERVICE AND MANAGEMENT

Management of institutional kitchens, food production and service. Equivalent of 2 Labs. per week, either term. *Mrs. Young and Staff*

442b. ORGANIZATION AND MANAGEMENT

Study of administration and organization procedures and tools; time and motion studies, menus, work plans, recipes.

Tu. 9:30, W. Th. 10:30—M204.

Mrs. Young

443b. PRINCIPLES OF ACCOUNTING AND COST CONTROL

Principles of accounting and cost control as related to food service organizations, particularly. Control of food, equipment and labour costs.

M. W. F. 2:30—M204.

Mrs. Young

444a. PERSONNEL MANAGEMENT

A study of employee training programmes in dietary departments; leadership development.

M. W. Th. 9:30—M204.

Professor Neilson

445a. KITCHEN PLANNING AND EQUIPMENT

Study of selection and layout of equipment in institutional kitchens. Purchasing methods, plant and food sanitation practices. A project in kitchen layout.

M. 1:30, Tu. 2:30, F. 1:30—M204.

Mrs. Young

446b. SCHOOL AND GROUP FEEDING

Study of school lunchroom organization and service, and other problems of feeding groups of children, such as camps and nursery schools.

Tu. 10:30, 11:30; W. 11:30—M208.

Mrs. Young

MATHEMATICS

110. PLANE TRIGONOMETRY AND ALGEBRA

Radian measure, logarithms, definitions of the trigonometrical functions, relations between the trigonometrical functions, reduction of angles,

PHYSICAL EDUCATION

addition formulae, transformations of sums and products, logarithmic solutions of triangles, problems in heights and distances, inverse function solution of trigonometric equations, graphs, variation, progressions, with applications to compound interest, permutations and combinations, mathematical induction, binomial theorem, theory of quadratic equations, equations of straight line and circle.

M. W. F. 12:30—B216.

Professor Henry (Institute of Education)

NUTRITION AND DIETETICS

220. ELEMENTARY NUTRITION

A study of the essential factors in an adequate diet, and the nutritional needs of various age groups.

During and as a result of this course the student is expected to establish and maintain good nutrition practices.

M. 9:30—M208—1st term; Th. 8:30, F. 10:30—M204—2nd term.

Mrs. Zarkadas

430. FUNDAMENTALS OF NUTRITION

Lectures and library assignments deal with the nutrients and their metabolism. In the second term, as an alternate to the laboratory work, students, with permission, may elect to participate in one or more biological projects in which rats, puppies, guinea pigs and/or the students themselves are the experimental subjects. These projects, when offered, will be scheduled by arrangement.

M. W. 8:30—A202; Lab. F. 8:30—A202.

Professors Crampton, Lloyd and Mr. Donefer

441. DIET THERAPY

Dietary modifications in treatment of pathological conditions, including gastrointestinal, metabolic, circulatory, renal and musculoskeletal disorders. Visits to hospitals, clinics and dietary departments.

M. 2:30, Tu. 1:30—M204—1st term; Th. 9:30—M204; Lab. 2:30—M250, M256—2nd term.

Professor Devereaux

443. NUTRITION AND DIET THERAPY SEMINARS

Presentation and discussion of reports on recent developments in dietetics.

F. 11:30—M204—1st term; W. 11:30—M204—2nd term.

Professors Neilson and Devereaux

PHYSICAL EDUCATION

110. Physical Education will be included in the work of the First year, all students being required to attend a minimum of two hours weekly

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during the session. Opportunity is provided for participation of all students in archery, swimming, basketball, skating, hockey, and badminton.

2 hours per week—both terms—Stewart Hall Gymnasium.

Miss Nichol (Institute of Education)

PHYSICS

112. GENERAL PHYSICS

An introductory course covering mechanics, heat, light, sound, electricity and magnetism at the First year college level. Fundamental principles are taught through demonstrations, laboratory work, and numerical examples.

Tu. Th. S. 10:30—C218—both terms; Lab. Tu. 1:30—C214—1st term;
Tu. 1:30—C108—2nd term.

Professor Rowles

340a. BIOPHYSICS (Prerequisite to Chemistry 347b)

Gas laws, osmosis, surface phenomena, pH, colloids and emulsions. Physical properties of X-rays and radioactive rays with examples of their use in diagnosis and therapy. Some of the lectures will be taken along with the lectures in Physics 333a. This is a two-unit course, comprising 2 Lects. and 1 Lab. for approximately nine weeks—first term.

M. F. 9:30—C218; Lab. W. 8:30—C108.

Professors Rowles and Warkentin

PHYSIOLOGY

330b. ELEMENTARY PHYSIOLOGY

The physiology of the different organ systems are presented systematically with emphasis on subject matter of medical importance. A comparative approach is employed in those areas wherein the physiology of man differs from that of the domestic animals.

W. F. 11:30, S. 8:30—B112.

Professor Dale

Text:—Best and Taylor, The Living Body (Henry Holt & Co.)

PSYCHOLOGY

400c. CHILD PSYCHOLOGY

The course will follow the development of the child from prenatal stages through the years of middle childhood. Special emphasis will be placed on the practical aspects of child care, training, behaviour symptoms, and the everyday problems of the normal child. *Elective.*

Tu. 9:30, W. 10:30, F. 1:30—M208—2nd term.

Professor Young (Institute of Education)

SOCIOLOGY

340c. INTRODUCTION TO SOCIOLOGY

An examination of the patterns of our society, with emphasis on group relationships. The course covers a general introduction to sociological theory, the social development of the individual, ethnic and class groupings, characteristics of urban and rural life, social change and institutional structures. *Elective.*

M. 10:30—M204; W. 10:30—M258; F. 10:30—M340—2nd term.

Mrs. MacFarlane

TEXTILES

110b. TEXTILES

Care and maintenance of fabrics used for clothing and furnishings, detergency, equipment and reagents for home and institutional laundry. Laboratory experience in techniques of laundering, testing of detergents and other agents.

Tu. Th. 9:30—M258; Lab. W. 9:30 or 1:30.

Professor Jenkins

330. ADVANCED TEXTILES

A study of natural and synthetic fibres, fabric structure and design, dyes and finishes. Developments in textile technology of value to the consumer. Fibre identification, fabric analysis, physical testing for fabric performance, weaving.

3 Lects. per week—first term; 2 Lects; 1 Lab. per week—second term.

(Not offered in 1960-61.)

Professor Jenkins

ZOOLOGY

220. GENERAL ZOOLOGY

An introduction to animal structure, physiology, and classification. Representatives of the chief phyla are studied and used to introduce some of the general principles of Zoology.

Tu. S. 10:30—B216; Lab. Tu. 1.30, 3.30—B112—B212—B204.

Professor Kevan and Staff

230a. INTERMEDIATE ZOOLOGY

A review of the animal kingdom with special reference to the morphology, biology, etc., of protozoa, flatworms, roundworms, annelids, molluscs, arthropods and chordates; the elements of entomology; animal parasitism; alternation of generations; an introduction to embryology and the comparative morphology of vertebrates; the elements of zoogeography.

2 Lects.; 2 Labs. per week—first term.

Professor Kevan

(Not offered in 1960-61.)

B.Sc.(H.Ec.) COURSE EXAMINATIONS

(See page 4587)

Scholarships, Prizes, Bursaries and Loan Funds

GENERAL

There is available to the students in the Faculty of Agriculture a wide range of scholarships and prizes as well as limited financial assistance provided through loan funds and through bursary-loan arrangements.

While it is the University's ambition that no worthy student be denied the privilege of an education because of the limitations of family finances, nevertheless, at the present level of student aid funds, assistance is limited, and can be undertaken only for the better students.

The principal forms of financial aid and awards to students are described below.

LOANS—GENERAL INFORMATION

A loan is the form of aid awarded to supplement a student's resources where his earning potential justifies the prospect of fairly early repayment. Sound academic standing, promise, and character are required as conditions of eligibility.

Unless otherwise specified in the case of particular loan funds, loans are not made by the University to students in their first year of attendance whose last year's record is below an average of 75%, or in other years, where their college record is below 60%.

Students who have financial problems, and who feel they are eligible for financial assistance, should apply for such assistance before registration, in order to assure themselves of funds enough to complete their year.

Students applying for loans from funds available at the University are required first to apply for a Dominion-Provincial loan, and otherwise demonstrate that they have exhausted all other possible sources of help, e.g. family and relatives, etc.

Dominion-Provincial Loans and Bursaries. The Dominion and Provincial Governments jointly offer a number of bursaries and combined bursaries and loans to degree students in most faculties and schools. These are open to men and women on equal terms. The Quebec grants are sixty per cent bursary and forty per cent loan, the latter being repayable

SCHOLARSHIPS, PRIZES AND LOAN FUNDS

one year after graduation. To be eligible for a Quebec grant, a student must be a British subject with at least two years' residence in the Province of Quebec, and must be under thirty years of age, in good academic standing, and in definite need of financial assistance. In some cases bursaries may be granted to married students.

Graduate students are not eligible under this plan, nor are students who receive any assistance from other Government funds. The award varies with the need and will not generally exceed \$300 for a local resident or \$500 for others in any one session. These bursaries may be renewed upon application before June 1st if the conditions for granting the award are maintained. Applications for new bursaries must be submitted on the proper forms before September 15th. Decisions regarding renewals of these bursaries are usually made late in August, but decisions regarding the award of new bursaries are not usually made until after the middle of October.

Students coming from other provinces should inquire from their Provincial Departments of Education whether they are eligible to participate in any comparable scheme. Application forms and additional information may be obtained at the Registrar's office.

Faculty of Agriculture Loan Funds: Interest bearing loan funds in limited amounts are available to particularly deserving Canadian students in good academic standing in the B.Sc. (H.Ec.) and B.Sc. (Agr.) courses who are in need of financial assistance. Entering students will not be considered for loan assistance unless their previous year's academic average equals or exceeds 75%.

In the case of students who maintain first or second class honours standing in the year during which the loan is made, part of the loan may be converted, at the discretion of the Faculty Committee on Scholarships, to a bursary. Every application for this loan or bursary assistance will, in the first instance, be treated as an application for a loan. The basis on which the Faculty Committee on Scholarships may recommend a loan-bursary is as follows: (1) for the student who secures an average in the year's work ranging from 65 to 70 per cent, the loan would be converted to a bursary to the extent of $\frac{1}{2}$ of tuition; (2) for the student who secures an average in the year's work ranking from 71 to 75 per cent, the loan would be converted to a bursary to the extent of $\frac{3}{8}$ of tuition; (3) for the student who secures an average in the year's work of over 75 per cent the entire loan up to the cost of tuition would be converted to a bursary. Applications for loans are considered by Faculty at the time of registration for the autumn term. Students must make application to the Registrar for this form of assistance prior to or at registration.

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Loan Fund of the Macdonald Branch of the McGill Graduates' Society: Through the generosity of the graduates of Macdonald College loan funds have been made available for deserving students. Two categories of students are considered.

Students from Ormstown and Shawville High Schools: Entering students from these two High Schools who have High School Leaving averages of 75% or more can obtain loans of up to \$500 for the first year, and for succeeding years, providing their academic standing is at the level of 65% or higher.

Students in Course: Upper year students who have at least 65% in their previous year's work will be eligible for loans of up to \$500 per year.

The Graduates' Society Loan Funds bear interest at the rate of 4½%, payable annually, are repayable after graduation, and are limited to Canadian citizens.

Applications are to be made before registration to the Registrar's Office, or, in the case of students entering from Ormstown or Shawville, to the Principals of these High Schools.

Kiwanis Club of Montreal Student Loan Fund. To assist worthy students who are in need of financial help to further their education, the Kiwanis Club of Montreal has established a loan fund for students in Agriculture at Macdonald College. Loans from this fund may be applied for by students contemplating entering the College as well as by students already enrolled.

The loans are to be repaid, in whole or by instalments, as soon as the recipient is able to do so. Except in special cases the maximum loan is \$250.

Application for a Kiwanis Club loan is to be made to the Registrar's Office, Macdonald College.

PROVINCIAL GOVERNMENT GRANT

The Department of Agriculture of the Province of Quebec grants to each graduate and undergraduate student in Agriculture who belongs to the Province of Quebec, and is registered for regular courses, \$20.00 per month of attendance in studying according to the time table in the Faculty of Agriculture, Macdonald College. Other students in Agriculture receive grants of half this amount. This grant will be paid monthly. In the case of graduate students, only bona fide students who give full time to their studies are eligible for the grant.

BURSARIES

A bursary is a financial award which does not have to be repaid. It is made, on the basis of need, to a student whose academic achievement, promise and character make him worthy of support. Bursaries are not awarded to students with averages of less than 65%. In addition to the bursary assistance listed below, attention is drawn to the bursary provisions associated with Dominion-Provincial Loans and with Faculty of Agriculture Loans indicated above.

Alumni Bursaries. Two bursaries of \$200 each are offered by the Macdonald Branch of the McGill Graduates' Society. One will be awarded to a student entering the B.Sc.(Agr.) course, the B.Sc.(H.Ec.) course, or the B.Ed. course. One will be awarded a student entering the Second year of one of these courses. The winner of the entrance bursary will be considered along with other applicants for the Second year bursary.

Application must be made to the Registrar before September 1st, on forms provided.

Children of War Dead (Education Assistance) Act. Under this Act fees and monthly allowances are provided for children of veterans whose death was attributable to military service. Enquiries should be directed to the nearest District Office of the Department of Veterans Affairs.

Ottawa Valley Graduates' Society Bursary of the value of \$100. This bursary is given through the Ottawa Valley Branch of the Graduates' Society. The winner is selected by the University from candidates who have written (1) The McGill School Certificate Examination or (2) The Quebec Catholic or Protestant High School Leaving Examination or (3) The Ontario Grade 12 Examination or (4) The McGill Senior School Certificate or (5) The Ontario Grade 13, or (6) The Quebec Catholic or Protestant Senior High School Leaving Examination.

Applications must reach the Registrar's Office, McGill University before September 1st.

B'nai B'rith Bursaries. Three bursaries of \$100 each have been given by the Mount Royal Lodge of B'nai B'rith. These bursaries are open to men and women students in any faculty. Need and scholarship will determine the award. Applications in writing must reach the Registrar's Office, McGill University, before the end of August.

B'nai B'rith Hillel Foundation Bursary. This Bursary of \$200, established by the B'nai B'rith Hillel Foundation of McGill University, is awarded by the University Scholarships Committee to a deserving student, irrespective of race, colour, or creed, in any faculty, preference being given to a student returning from service in the armed forces.

Frederick Southam Ker Bursary. This bursary was established in 1941 by the late F. N. Southam in memory of his grandson, Frederick Southam Ker, who was killed in action on September 6th, 1940. This bursary of \$175 is open on equal terms to men and women of all faculties without respect to religion or race. It is awarded to a student who gives promise of becoming a good citizen but is handicapped in his or her academic course by lack of funds. Financial need, character, and academic record are all taken into account in making the award.

St. Francis District Graduates' Society Bursary. This Bursary of \$250 is restricted to residents of the area covered by the St. Francis District Branch of the Graduates' Society and is open to pupils of any high school or private school entering any faculty or school of McGill University, including Macdonald College. The Bursary may be renewed for a second year. An amount of \$150 of the Bursary is to be repaid by the holder at the rate of a minimum of \$50 per year after graduation. The award is made by the St. Francis District Branch of the Graduates' Society on the recommendation of the University Scholarships Committee. Application forms may be obtained from the Registrar's Office, McGill University.

SCHOLARSHIPS

A scholarship is an honour granted for distinguished academic performance, and unless otherwise specified carries no stipend. However, the holder of a scholarship, on proof of need, has preferred claim to financial aid. Scholarships are not granted to students with academic averages below 70%.

Students in the Faculty of Agriculture are eligible to apply for the following University scholarships. Applications are to be sent to the Registrar, McGill University, Montreal 2, Que., before July 1st, unless otherwise stated.

National Scholarships: A number of National Scholarships, in addition to the Morris W. Wilson Memorial Scholarships, will be awarded by the University Scholarships Committee to enable outstanding students from all parts of Canada, who would not otherwise be able to do so, to attend the University. These will be awarded both to students entering undergraduate degree courses by means of matriculation examinations and to students entering any professional faculty of the University except the Faculty of Graduate Studies and Research. The undergraduate work of students entering such professional faculties as Medicine, Dentistry, Law, Divinity, etc., must have been completed at some other university.

SCHOLARSHIPS, PRIZES AND LOAN FUNDS

These scholarships will normally be tenable for the period necessary to obtain a degree. The amount awarded will depend upon need, but may extend to the full costs of tuition, residence, and board. As far as possible, holders will be accommodated in University residences, but this cannot be guaranteed. Normally, National Scholarships will be awarded only to students who reside outside the Montreal area. (It should be noted, however, that the existing University Entrance Scholarships are awarded to students from the Montreal area.)

Two of these National Scholarships have been made possible through the generosity of Mr. David Wolfson and two winners will, therefore, be designated as David Wolfson Scholars.

Applications should be made on forms to be obtained from the Registrar, McGill University, Montreal 2, Que., and should be submitted on or before June 1st.

University Scholarships. Certain scholarships implying exceptionally high achievement have been designated "University Scholarships" by Senate.

The winner of a University Scholarship receives the title and status of a "University Scholar."

The maximum value of a University Scholarship for students living at home is the tuition fee of the holder. Students who must live away from home in order to attend the University may receive an additional grant not exceeding \$500. In each case the grant actually awarded will depend upon the financial needs of the winner.

A University Scholarship is renewable annually provided that in the opinion of the University Scholarships Committee the holder maintains a sufficiently high academic standing. No application is required.

Morris W. Wilson Memorial Scholarships. Established by contributions from a large number of intimate friends and business associates of the late Morris W. Wilson as a memorial to a distinguished citizen who, among his many public activities, rendered distinguished service to the cause of education, and who, at the time of his death, occupied the office of Chancellor of McGill University. The creation of the fund marks the culmination of a hope long cherished by Mr. Wilson, that of supplying the means whereby young Canadian boys and girls of outstanding ability and promise, but in poor financial circumstances, might obtain the benefits of a university education. It is hoped that this fund may be the means of assisting many deserving young Canadians, particularly those from rural areas, to become better equipped to perform the duties of citizenship and so more effectively to apply their abilities to the general development and welfare of the country.

These Scholarships are open on equal terms to men and women of Canadian parentage, now resident in Canada, and are open only to students who wish to enter the Faculty of Arts and Science, the Faculty of Engineering, or the degree course in Agriculture at Macdonald College. Each Scholarship covers the full tuition fee of the student, as well as the cost of board and residence at Douglas Hall, the Royal Victoria College, or Macdonald College, for the full period necessary to enable the student to obtain his degree. The holder will normally forfeit the Scholarship if, during his course, he fails to maintain academic standing satisfactory to the Selection Committee.

Canadian Pacific Railway Scholarships. Scholarships covering five years' tuition in Chemical, Civil, Mechanical, or Electrical Engineering, or six years' tuition in the School of Architecture, or four years' tuition in the Arts courses of the Faculty of Arts and Science, or in the School of Commerce, or four years in the School of Household Science, Macdonald College, are awarded annually by the Canadian Pacific Railway Company. These are open for competition to apprentices and other employees of the Company under twenty-one years of age, as well as to minor sons and daughters of employees. The method of award is that of the University Entrance Scholarships described in the Scholarships Announcement, candidates being required to submit:

- (a) their complete High School record,
- (b) their marks or grades in any recognized examination,
- (c) confidential letters from their school principals.

Forms of eligibility and full particulars as to the number of scholarships available, etc., may be obtained from Mr. G. A. Smyth, Superintendent of Pensions and Staff Registrar, Pension Department, C.P.R. Offices, Montreal. Applications, on forms obtainable from the Registrar's Office, accompanied by statements of eligibility from Mr. Smyth, must reach the Registrar's Office before 1st July.

Isabella C. MacRae Scholarship. This scholarship of \$150 is open to residents of Maxville, Ont., who have satisfied the requirements for entrance to McGill University. Should there be no successful applicants from this locality for six years, the scholarship will subsequently be open to any resident in Ontario.

Christie-Storer Scholarship. A scholarship of the value of \$150, endowed by the above-named Chapter of the I.O.D.E. in memory of the men of St. Lambert who fell in the Great War, 1914-18, is awarded annually to the pupil residing in St. Lambert who stands highest in the June High School Leaving examination each year at the Chambly County High School.

SCHOLARSHIPS, PRIZES AND LOAN FUNDS

General Motors Scholarships. Three entrance scholarships at McGill University have been established by the General Motors Corporation of Canada and are open to outstanding young Canadian men and women entering the Faculty of Arts and Science, the Faculty of Engineering, or the degree courses in Agriculture or Household Science at Macdonald College. The scholarships are renewable annually until the holders obtain their first degrees provided they maintain a satisfactory academic standing. Should a holder withdraw or fail to maintain a satisfactory standing the scholarship may be awarded to another qualified candidate who is a member of the same class. The amount of each award is flexible and will range from an honorary award of \$200 up to an award of \$2,000 a year depending upon the demonstrated need of the individual. Applications must be submitted on or before the 1st of July.

Scholarship granted by the Graduates' Society of the District of Bedford. This scholarship of \$140 is awarded each year to a student who has taken his or her High School classes (Grades IX, X, and XI) in one of the High Schools of the District of Bedford and who enters the University or Macdonald College to take any full-time degree course. The award, which may be divided between two students, is based on the results of the High School Leaving marks and is awarded by the District of Bedford Graduates' Society upon the recommendation of the University Scholarships Committee.

Khaki University and Y.M.C.A. Memorial Scholarship Fund. The interest on this fund is awarded in scholarships by the Scholarships Committee subject to the following conditions:

1. That the scholarships may be held by undergraduates only;
2. that preference be given to sons and daughters of soldiers:
 - (a) who served in the war of 1914-18
 - (b) who served in the war of 1939-45.

Leonard Foundation Scholarships. The Leonard Foundation created in 1916 by the late Colonel Reuben Wells Leonard and Mrs. Leonard offers each year a number of scholarships tenable at schools, colleges, and universities in Canada, approved by the Foundation.

The scholarships are open to men and women. A student to be eligible must be "a British subject, of the white race, of the Christian Religion in its Protestant form, and of the full age of fourteen years".

The amount of the award will vary with the need of the winner.

Sons and daughters of the following are given preference in the selection of scholars:

(a) Clergymen, (b) School Teachers, (c) Officers, Non-Commissioned Officers, and Men, whether active or retired, of His Majesty's naval, military, or air forces, (d) Graduates of the Royal Military College, (e) Members of the Engineering Institute of Canada, (f) Members of the Mining and Metallurgical Institute of Canada.

Men and women returning from active service are also given preference over the non-preferred class.

The University is willing to endorse and forward with its recommendation applications of any candidates who may wish to apply through the University and are approved by it.

Such candidates must make their applications on forms to be obtained from the Registrar's Office, McGill University, and must return these to the Registrar before January 1st.

Montreal Branch, Canadian Women's Press Club Scholarship in Journalism. This scholarship of \$150 is open to women students in any faculty at McGill University, who are spending at least another year at the University.

The qualifications are high academic standing and definite ability in writing. Preference will be given to students who intend to make journalism a career and have taken an active interest in student publications.

The scholarship is restricted to Canadian citizens.

Applications should be made by letter, giving qualifications, to the Registrar, McGill University, Montreal 2, Que., on or before April 15th.

PRIZES:

Prizes are awards made on a competitive basis for achievements in specified fields.

The J. M. Rutherford Memorial Prize. The J. M. Rutherford Memorial Prize of \$100 is offered annually for some original work or study undertaken by a student of the University, on his own initiative, preferably outside the regular work for his or her degree. Candidates may be nominated by any member of the University staff or may apply in writing directly to the Registrar, submitting evidence of their qualifications.

Entries or nominations must reach the Registrar, McGill University, Montreal 2, Que. *not later than May 1st.* The award will be made by the University Scholarships Committee. Students registered in the Faculty of Graduate Studies and Research are not eligible to compete for this Prize.

The competition is restricted to those students who have not previously won the Prize.

Other University Awards. In addition to the foregoing, there are a number of scholarships and bursaries which are administered by the University Scholarships Committee and which are open to students in any Faculty or School. Information concerning these will be found in the announcement of Scholarships, Bursaries, Prizes and Medals, a copy of which may be obtained from the Registrar, McGill University, Montreal 2, Que.

FACULTY OF AGRICULTURE MEDALS, SCHOLARSHIPS AND PRIZES:

B.Sc. (H.Ec.) COURSE

Stewart Medals. The Stewart medals, which are named in recognition of the long and continued support and interest of Mr. and Mrs. Walter M. Stewart in the academic progress and welfare of Macdonald College students, are awarded annually for academic achievement to the students ranking highest in the First and Second years of the B.Sc. (H.Ec.) course.

Lieutenant-Governor's Gold Medal. His Honour the Lieutenant-Governor of the Province of Quebec donates annually a gold medal which is awarded to the student who ranks highest in the Third year class in Home Economics.

Lieutenant-Governors' Silver Medal. His Honour the Lieutenant-Governor of the Province of Quebec donates annually a silver medal which is awarded to the student who ranks highest in the practice teaching option in the Fourth year of Home Economics.

Governor General's Medal. His Excellency the Governor General of Canada donates a medal to be awarded to the student in Home Economics who ranks highest in the graduating class.

Mrs. Alfred Watt Memorial Prize. A Prize has been established by the Quebec Women's Institutes as a memorial to a distinguished Canadian, Mrs. Alfred Watt, M.B.E., who introduced the idea of Women's Institutes in England and Wales and was President of the Associated Country Women of the World from 1930 to 1947. This prize, valued at \$100 annually, is awarded to a student from rural Quebec in the Second, Third or Fourth year of the B.Sc. (H.Ec.) course who shows qualities of leadership and is worthy of financial encouragement to complete her course.

Frederica Campbell Macfarlane Prize. A prize has been donated by the Quebec Women's Institute in memory of the late Frederica Campbell Macfarlane, graduate in Institution Administration, 1912, Superintendent of the Quebec Women's Institute from 1913 to 1919. This prize, valued at \$100, is open only to students from a rural district of the Province of Quebec, and is awarded on the results of the final examinations in any one of the first three years of the B.Sc. (H.Ec.) Course.

Harrison Prize. A prize established by an endowment of \$300 under the will of the late Dr. F. C. Harrison, Principal of Macdonald College from 1910 until 1926; awarded to the student of the B.Sc. (H.Ec.) course who graduates with the highest standing.

Class of 1953 Book Prize. Graduates of the class of 1953 (Agriculture and Household Science) have established a fund, the proceeds of which are used to provide a prize in books for the student with the highest standing in all the courses of the Second year curriculum. The prize will be awarded in the B.Sc.(Agr.) course in odd-numbered years; in the B.Sc.(H.Ec.) course in even-numbered years.

Home Economics Club Prize. The Home Economics Club of Macdonald College offers a prize of \$25 to the student with the highest aggregate in Household Science subjects during the Second and Third years. The award will be made at the end of the Third year.

I.O.D.E. Bursary. The Imperial Order Daughters of the Empire offers a bursary of \$200 to a British student who has successfully completed the Second year of the B.Sc. (H.Ec.) course and has obtained satisfactory standing. The bursary is offered to aid a worthy student who is in need of financial assistance in order to complete her studies. It is payable in two equal instalments at the beginning of the Third and the Fourth years of the course. Other considerations being equal, preference will be given to a candidate from rural Quebec. Application must be made to the Registrar before October 1st, on forms supplied by the College.

Montreal Home Economics Association Bursary. The Montreal Home Economics Association offers a bursary of \$150 to a deserving student in one of the senior years of the B.Sc. (H.Ec.) course. Applications must be made to the Registrar before October 1st.

Janet Morison Robb Bursary for Women. This bursary was established, by an endowment of \$2,000, by the late Honourable James A. Robb, formerly Member of Parliament for Chateauguay-Huntingdon and Minister of Finance, Canada, in memory of his deceased daughter, Janet Morison Robb, wife of Hugh Harvie Donald. The annual bursary will be the income from the endowment for one year.

Preference will be given to women students resident in either of the counties of Chateauguay-Huntingdon, or Beauharnois, who are daughters of widowed mothers of limited or moderate means, or daughters of widowers in similar financial circumstances, or daughters of disabled Canadian soldiers who have seen active service.

Candidates for this bursary are requested to make written application, addressed to the Registrar, Macdonald College, Que., giving full particulars of the grounds upon which their applications are based, and to provide letters from two responsible persons in support of their claims.

B.Sc. (Agr.) COURSE

Macdonald Medals. As a tribute to Sir William Macdonald, and in recognition of academic achievement, Mr. and Mrs. Walter M. Stewart of Montreal have donated two medals for annual competition, one medal to be awarded to the student with the highest aggregate standing in the First year, and one to be similarly awarded in the Second year of the B.Sc. (Agr.) course.

Lieutenant-Governor's Medal. His Honour the Lieutenant-Governor of the Province of Quebec donates annually a medal, which is awarded to the student who ranks highest in the Third Year in Agriculture.

Governor General's Medal. His Excellency the Governor General of Canada donates a medal to be awarded to the student in Agriculture who ranks highest in the graduating class.

Eliza M. Jones Scholarships. Four scholarships have been established by a bequest of the late F. P. Jones in memory of his mother. They are restricted to applicants who are entering the B.Sc. (Agr.) course for the first time. They have a minimum value of \$300 and a maximum value of \$500. Two are reserved for students who are entering the First year of the course and two for students entering the Third year of the course.

Application forms may be obtained from the Registrar, and all applications must be made before September 1st. Candidates for First year scholarships are required to submit their complete high school record, their matriculation or school leaving marks. Candidates for Third year scholarships are required to present records of their academic attainment for the first two years of college work. In all cases the Registrar will ask for a recommendation from officers or Faculty members of the school or college attended.

Nova Scotia Agricultural College Scholarship. Macdonald College offers a scholarship of \$600 to the student of the Nova Scotia Agricultural College who obtains the highest standing in the work of the Second year of the degree course in that College, and who subsequently registers in the Third year at Macdonald College. The scholarship will be paid in two instalments: half at the beginning of the Third year, half at the beginning of the Fourth year.

Borden Company Limited Scholarship. A scholarship of \$300 is offered by the Borden Company Limited of Canada to encourage promising students who take a course of study of value to the dairy industry. The award will be made to a student on completion of his Third year, half payable at the beginning of the first term of the Fourth year, the balance at the beginning of the second term. The following factors

will be considered in making the award: high standing in the subjects of his course during the Third year with emphasis on dairying, dairy chemistry, or dairy bacteriology; participation in student organizations and college activities; co-operation with students and staff in the advancement of the interest of the student body and the College as a whole.

Daughters of the Empire Prize. As a recognition of the value of agricultural education in their Province and Country, the Imperial Order Daughters of the Empire, Quebec Provincial Chapter gives a prize of \$200, tenable during the Third and Fourth years of the B.Sc. (Agr.) course, to the British student who obtains the highest marks in the final examinations of the Second year. The award is payable to the winning student in two instalments of \$100 each at the beginning of his Third and Fourth years respectively.

Steinberg Prizes. Two prizes of \$100 each are awarded annually by Steinberg's Limited to students in the Third year of the B.Sc. (Agr.) course. One is awarded to the student ranking first in the Animal Husbandry option, and the other to the student ranking first in the Horticulture option.

Robert Raynauld Prizes. Four prizes are offered by Robert Raynauld, M.S.A. '28, publisher of *La Ferme*. Two prizes, of \$60 and \$40 respectively, are awarded to the students standing first and second in course Agronomy 442—Project. The decision is based on both written and oral presentation.

Two prizes of \$60 and \$40 respectively are awarded to the students standing first and second in the examinations of the Third year of the Agronomy Option.

Chemical Institute of Canada Prize. The Chemical Institute of Canada offers a prize of books to the value of \$25 to the student in the Chemistry Option with the highest standing at the end of the Third year.

Society of Chemical Industry Prizes. Two prizes, one of \$50 and one of \$25, are offered by the Montreal Section of the Society of Chemical Industry (Canadian Section), for an original essay on a chemical subject. Undergraduate students are eligible to present papers. Further details may be obtained from the Chairman of the Chemistry Department, or from the Registrar's Office.

Lochhead Memorial Prize. A prize established by an endowment of \$400 in memory of William Lochhead, B.A., M.Sc., the first Professor of Biology at Macdonald College. It is awarded to the student, majoring in Entomology, who takes the highest standing in the Fourth year, the

SCHOLARSHIPS ETC., DIPLOMA COURSE

prize, in value equal to the proceeds of the endowment for one year, to be in books selected by the winner with the approval of the Chairman of the Department of Entomology.

Class of 1953 Book Prize. Graduates of the class of 1953 (Agriculture and Household Science) have established a fund, the proceeds of which are used to provide a prize in books for the student with the highest standing in all the courses of the second year curriculum. The prize will be awarded in the B.Sc.(Agr.) course in odd-numbered years; in the B.Sc.(H.Ec.) course in even-numbered years.

T. J. Rutherford Essay Prize. A first prize of \$60, and a second prize of \$30 are offered through the generosity of Brig. T. J. Rutherford, Chairman of the Farm Credit Corporation for essays on the subject

"The Voluntary and Progressive Reorganization of Canadian Agriculture into Economically-sized Family Farm Units—Its Advantages to the Economy and its Practicability where Ample Well-directed Credit is Available."

Essays should not be longer than 10,000 words, and must be submitted before March 15, 1961, to the Chairman, Department of Agricultural Economics, Macdonald College.

Stern Cup. Sir Edward D. Stern, Fan Court, Chertsey, Surrey, England, has donated a silver challenge cup, which is held for one year by the student who makes the highest aggregate in Stock Judging in the final year of the subject.

Cutler Shield. Mr. Garnet H. Cutler, Professor of Agronomy, Purdue University, Lafayette, Indiana, the first lecturer in Cereal Husbandry, Macdonald College, has donated a bronze challenge shield, which is held for one year by the student majoring in Agronomy, who makes the highest aggregate in the final year.

Conklin Trophy. Dr. Raymond L. Conklin has donated a trophy to be held for one year by a student in any year of the B.Sc.(Agr.) course who has, in any one session, played on the College rugby team and in one other team sport and who, in the same year, has maintained high academic standing. The winner's name will be engraved on a shield on the trophy which will be awarded only once to any individual.

Janet Morison Robb Bursary for Women. See page 4632.

DIPLOMA COURSE

Lieutenant-Governor's Medal. His Honour the Lieutenant-Governor of the Province of Quebec, gives annually a bronze medal, which is awarded to the student who takes the highest percentage in General Proficiency in the First year of the Diploma Course.

Minister of Agriculture's Medals. The Honourable the Minister of Agriculture of the Province of Quebec offers annually two bronze medals in connection with the Diploma Course, Second year Class, to be presented to the students ranking first in the Dairy Farming and in the Fruit Farming Groups respectively.

Minister of Agriculture's Prize. The Honourable the Minister of Agriculture of the Province of Quebec donates a prize each year to the student graduating in the Diploma course who has shown the greatest general improvement during the two years of the course.

La Ferme Prize. Robert Raynauld, M.S.A., Editor of *La Ferme* magazine, offers a prize of \$25 for competition among students of the Second year of the Diploma Course who come from farm homes and who intend to return to farming after graduation. The prize will be awarded to the eligible student who presents the best project.

The Vernon E. Johnson Woodlot Award. The Canadian International Paper Company offers a prize of \$25 for the student of the Diploma Class who before graduation has completed most successfully a project on his own farm woodlot, or on a small area of a neighbouring woodlot. In general an area of at least two acres of woods is required for the contest. The purpose is to carry out timber stand improvement practices in consultation with the Department of Woodlot Management, using the methods developed in Farm Forestry 11a, one acre being treated, the other held as a check on the progress of the treated acre.

Q.W.I. Bursary. The Quebec Women's Institute provides a bursary of \$100 to the student entering the Second year of the Diploma Course, who:—

(1) Is a professional farmer's son, (or daughter) from the Province of Quebec.

(2) Has spent at least one season (seed time to harvest) in his father's employ on the farm.

(3) Intends to return to his father's farm for at least one year on completion of his course (or to manage his own farm).

(4) And who, if more than one candidate presents himself as fulfilling the above three requirements, takes the highest proficiency in agricultural subjects in the First year or, if he is the only candidate, obtains at least class II standing in these subjects.

If no student can qualify for the above, this bursary will be made available as an entrance bursary to the First year of the Diploma Course.

GRADUATE SCHOLARSHIPS

Fisher Trust Fund. In memory of the late Honourable Sydney A. Fisher, formerly Member of Parliament for Brome County and Minister of Agriculture, Canada, two agricultural prizes of \$75 a year each tenable at Macdonald College for two years are offered, for the Diploma Course in Agriculture, on the following conditions:—

1. The candidates must be sons of farmers in the County of Brome, co-operating in farm activities during the period of their college course.
2. The candidates must be at least sixteen years of age.
3. The candidates must have passed at least grade IX of the High School course.
4. These awards will be continued from term to term only upon favourable reports from the Dean of the Faculty of Agriculture.

Applications must be sent, on or before the 1st of October, to the Chairman of the Fisher Trustees, R. F. Cowan, Mansonville, Que.

Ellin Beit-Speyer Bursary. Miss Ellin Beit-Speyer, of Springmount Jersey Farm, Massawippi, Que., provides a bursary of \$200 to a student in the First or Second year of the Diploma Course.

Participation in Club activities, farm background and need will be considered in making the award.

Applications should be addressed to the Registrar's Office, Macdonald College, before October 1st.

GRADUATE SCHOLARSHIPS

The Walter M. Stewart Postgraduate Scholarships in Agriculture have been established by the donor to permit promising students from the Oka Agricultural Institute and l'Ecole Supérieure d'Agriculture at Ste. Anne de la Pocatière, to undertake postgraduate studies at Macdonald College. One scholarship of \$1,000 is available each year to a student from each of these institutions. Application should be made to the Director of the institutions concerned before May 1st each year. The scholarships will not be awarded to students who would, including this scholarship, be in receipt of scholarships, fellowships, assistantships, etc. to a value of \$2,000 or more per annum.

C.I.L. Fellowship. A postgraduate Fellowship in Agriculture for research related to the agricultural chemicals industry, of the value of \$2,000, with an additional grant of \$400 for research expenses and tenable at Macdonald College by students proceeding to a Ph.D. degree is offered by Canadian Industries Limited to university graduates who are Canadian citizens or to university graduates who are intending to follow a career

in Canada. Preference is given to Canadian citizens. Upon completion of the year's work, a written report outlining work performed under the Fellowship or a copy of the thesis prepared for his degree shall be submitted by the Fellow to Canadian Industries Limited.

Normally the Fellowship will be tenable for one year only, but in special cases may be renewed for a second year.

Applications, addressed to the Registrar, must be made before May 15th each year.

Cominco Fellowship. The Consolidated Mining and Smelting Company of Canada, Limited, offers annually a fellowship of \$1000 for research related to metals, fertilizers, and chemicals; an additional grant up to \$200 may be made for research expenses or for continuance of the investigation. The fellowship is open to graduates of any approved university, in Science, Engineering, or Agriculture, who will normally be proceeding towards a higher degree at McGill. Canadian applicants are preferred. The topic of research will be selected in consultation with the donors and with the Dean of the Faculty of Graduate Studies and Research, to whom application should be made not later than May 1st.

Other Graduate Fellowships. A number of Graduate Fellowships are available to students entering the Faculty of Graduate Studies and Research. These have a fixed value of \$1,200 for ten months plus tuition fees. Further particulars may be obtained from the Dean of the Faculty of Graduate Studies and Research.

The Sir Vincent Meredith Fellowship in Agricultural Economics. The Fellowship valued at \$2,500 per year is tenable for a two-year period. The fellow must qualify for admission to graduate work in Economics at the Ph.D. level as set out in the announcement bulletin of the Faculty of Graduate Studies and Research of McGill University, and will be required to pursue research or thesis work on an approved subject in the area of Agricultural Economics. Limited teaching or other duties attach to the tenure of this Fellowship. Inquiries and applications should be addressed to the Department of Agricultural Economics, Macdonald College, prior to March 15th.

EXPENSES

Approximate Cost of Courses per Session

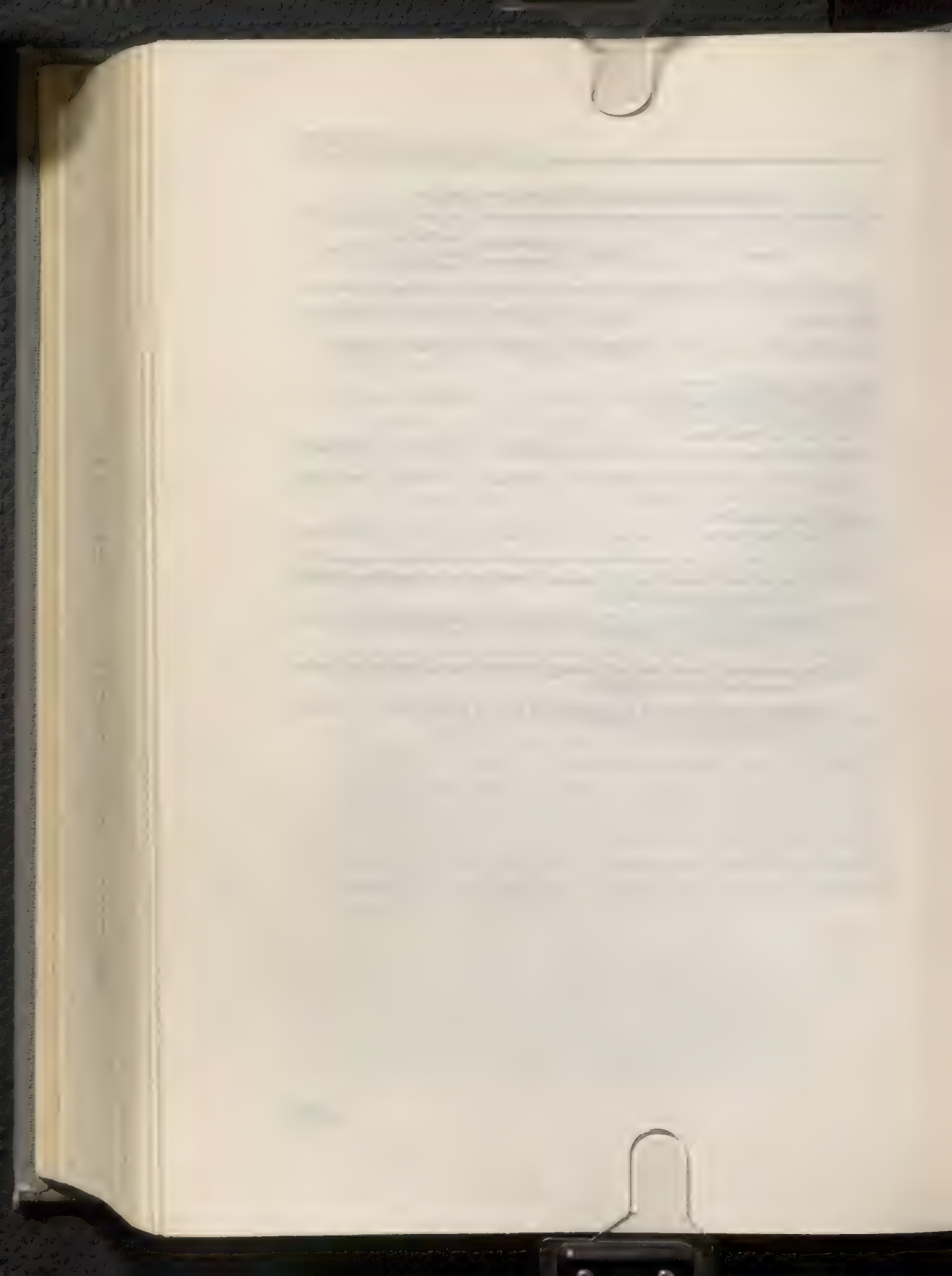
Course	Tuition	Board and Residence	Textbooks, supplies, etc. (estimate)	Total
B.Sc.(Agr.).....	285.00	465.00	85.00	835.00(1)
B.Sc.(H.Ec.)	285.00	465.00	85.00	835.00
Diploma in Agriculture— Sons of farmers of Quebec, the Ottawa Valley in Ontario, the Maritime Provinces.....	35.00	320.00	30.00	385.00(2)
Others.....	250.00	320.00	30.00	600.00(2)
Agriculture Specialist Teacher's Certificate.....	225.00	575.00	50.00	850.00

- (1) Students who have lived in Quebec 2 years or more, receive a Quebec Government grant of \$140.00.

Students who have lived in Quebec less than 2 years, receive a Quebec Government grant of \$70.00.

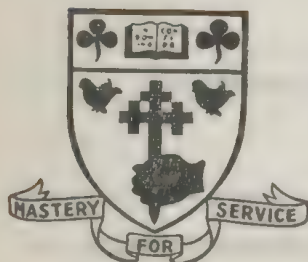
- (2) Students who have lived in Quebec 2 years or more, receive a Quebec Government grant of \$100.00.

Students who have lived in Quebec less than 2 years, receive a Quebec Government grant of \$50.00.



McGill University

Montreal



Institute of Education

School for Teachers

School of Physical Education

Division of Graduate Studies

1960-1961

PUBLICATIONS

The following official publications are issued by the University and may be obtained from the Registrar's Office.

Announcements of Faculties and Schools:

General Announcement

School Certificate Examinations

Scholarships, Bursaries, and Loan Funds

Faculty of Arts and Science (Degrees in Liberal Arts and in Pure Science. There is a separate Announcement for the School of Commerce)

Faculty of Medicine

Faculty of Medicine Postgraduate Courses

Faculty of Dentistry

Faculty of Engineering (Degrees in Engineering and in Architecture)

Faculty of Law

Faculty of Music

Faculty of Divinity

Faculty of Graduate Studies and Research

School of Commerce

Institute of Education

Library School

School for Graduate Nurses

School of Physical and Occupational Therapy

School of Social Work

Macdonald College (Faculty of Agriculture and the School of Household Science.)

French Summer School

Extension Courses

The Directory of Staff (University administrative officers, standing committees, and officers of instruction. Limited distribution)

The Calendar (Available for distribution only to libraries and officials of certain institutions)

Institute of Education

The Institute of Education is under the administrative jurisdiction of the Faculty of Arts and Science

ADMINISTRATIVE OFFICERS

F. CYRIL JAMES, Chevalier de la Légion d'Honneur, B.Com., M.A., Ph.D.,
D.Sc., D. de l'U., D.C.L., LL.D., F.R.S.C. *Principal*

DAVID L. THOMSON, B.Sc., M.A., Ph.D., LL.D., F.C.I.C., F.R.S.C.
Vice-Principal

H. N. FIELDHOUSE, M.A., F.R.S.C. *Dean of McGill College*

D. C. MUNROE, M.A. *Director*

C. W. HALL, M.A. *Secretary of the Institute*

JOHN H. HOLTON, B.Com. *Secretary of the Board of Governors*

COLIN M. McDougall, D.S.O., B.A. *Registrar*

G. A. GRIMSON, B.Com. *Comptroller*

MACDONALD COLLEGE

H. G. DION, B.S.A., Ph.D. *Vice-Principal*

R. L. PUXLEY *Secretary, Macdonald College*

R. A. SHACKELL, B.Com., C.A. *Assistant Registrar*

THE INSTITUTE OF EDUCATION

Macdonald College, P.Q.

The Institute of Education, under the jurisdiction of the Faculty of Arts and Science, offers courses leading to the degrees of B.Ed., B.Ed.(P.E.), and M.A.(Education), and to diplomas issued by the Protestant Department of Education (Central Board of Examiners), Quebec. The School for Teachers at Macdonald College and the School of Physical Education are administered within the Institute, which also conducts programs of graduate studies and research. The work of the Institute is carried on at Macdonald College and on the Montreal campus of the University under the general supervision of the Teacher Training Committee, a statutory body established in 1907. This Committee consists of the Director of Protestant Education, four persons appointed by the Protestant Committee of the Council of Education, the Principal of McGill University, who is ex-officio chairman, and two other persons appointed by the Governors of McGill University. The present members are as follows:

The Principal, *Chairman*
The Director of Protestant Education
L. N. Buzzell, B.Com., C.A.
T. M. Dick, M.A.
J. A. de Lalanne, C.B.E., M.C., B.Com., C.A.
J. P. Rowat, B.C.L., N.P.
Dean H. G. Dion
Dean H. N. Fieldhouse
The Director, Institute of Education

STAFF

PHYLLIS BOWERS, B.A., *Assistant Professor of Education*
FRANCES E. CROOK, M.A., Ed.D., *Assistant Professor of Education*
ALEXANDER B. CURRIE, B.Com., M.A., M.Ed., Ph.D., *Associate Professor of Education*
RUTH M. DUNCAN, B.A., B.Sc.(P.Ed.), Associate of the University of London, *Assistant Professor of Education*
REGINALD EDWARDS, B.Sc., M.Ed., *Professor of Education, Chairman of the Division of Graduate Studies*

STAFF

- C. WAYNE HALL, M.A., *Professor of Education, Chairman of the Division of Instruction, Secretary*
- FRANK K. HANSON, Mus.D., *Professor of Education, Chairman of the Division of General Education*
- S. C. M. HAWKINS, D. de l'Univ. de Paris, M.A., *Associate Professor of Education*
- ARTHUR M. HENRY, M.A., *Professor of Education, Chairman of the Division of Practice Teaching*
- MEYER HOROWITZ, B.A., M.Ed., *Lecturer in Education*
- MARGUERITE F. L. HORTON, M.A., *Assistant Professor of Education*
- A. ELIZABETH JAKUES, Associate of the University of London, *Assistant Professor of Education*
- G. W. E. McELROY, B.A., *Lecturer in Education*
- DAISY MACNEIL, M.A., *Lecturer in Education*
- SHIRLEY W. McNICOL, B.A., *Lecturer in Education*
- H. D. MORRISON, M.A., *Assistant Professor of Education*
- DAVID C. MUNROE, M.A., *Macdonald Professor of Education, Director*
- PAUL NASH, B.Sc., M.Ed., *Assistant Professor of Education*
- DOROTHY M. NICHOL, B.Sc. (P.Ed.), *Lecturer in Education*
- R. L. R. OVERING, M.A., *Lecturer in Education*
- EIGIL D. PEDERSEN, B.A., *Lecturer in Education*
- FRANGA STINSON, B.A., *Lecturer in Education*
- MURIEL TOMKINS, M.A., *Assistant Professor of Education*
- MARGARET WALKER, M.A., *Lecturer in Education*
- J. H. WIDDOP, B.Sc., *Lecturer in Education*
- ROBERT E. WILKINSON, M.A., B.Sc. (P.Ed.), *Assistant Professor of Education*
- MILES WISENTHAL, M.A., *Assistant Professor of Education*
- WINONA E. WOOD, B.Ed., M.A., *Associate Professor of Education, Chairman of the Division of Physical Education*
- JOHN E. M. YOUNG, B.A., M.Ed., Ph.D., *Associate Professor of Education, Chairman of the Division of Foundations of Education*

INSTITUTE OF EDUCATION

VISITING STAFF

ERIC O. CALLEN, B.Sc., Ph.D. (Edin.), F.L.S., *Assistant Professor of Plant Pathology*

FRANCIS A. C. DOXSEE, B.A. (Oxon), *Lecturer in Scripture*

R. GOLD, B.A., *Lecturer in Classics*

GERALD O. HENNEBERRY, B.Sc. (Dal.), M.Sc., *Lecturer in Agricultural Chemistry*

F. CYRIL JAMES, B.Com. (Lond.), M.A., Ph.D. (Penn.), LL.D. (Tor., Glasgow, etc.), *Professor of Political Economy*

JOHN W. KERR, B.A., *Lecturer in Scripture*

D. K. McE. KEVAN, B.Sc. (Edin.), Ph.D. (Nott.), A.I.C.T.A. (Trinidad), F.R.S. (E.), *Professor of Entomology and Chairman of the Department of Entomology and Plant Pathology, Faculty of Agriculture*

G. MICHIE, M.A., *Lecturer in Geography*

FRANK O. MORRISON, B.A., M.Sc.(Agr.) (Alta.), Ph.D., *Associate Professor of Entomology*

WILLIAM ROWLES, B.Sc. (Sask.), M.Sc., Ph.D., *Professor of Agricultural Physics.*

JAMES S. THOMSON, M.A. (Glasgow), D.D. (Glasgow, Toronto), LL.D. (Toronto, etc.), *Post-Retirement Professor of Philosophy of Education*

R. VOGEL, M.A., Ph.D., *Assistant Professor of History*

DEMONSTRATION STAFF (Macdonald Elementary and High Schools)

L. CLARK, B.A., *Principal, Macdonald Elementary School*

MAISIE MACRAE (Mrs. Wm.), B.A.

MARJORIE POPE

DOREEN GLADWELL (Mrs. R.)

GEORGE SMITH, B.Ed.

JOAN HANNA (Mrs. R. L.), B.A.

GRAEME SMITH, B.A.

E. G. KNIGHT, B.A.

RUTH TOOHEY

COUNCIL OF THE INSTITUTE

D. C. MUNROE, *Chairman*

F. K. HANSON

DEAN FIELDHOUSE

A. M. HENRY

R. EDWARDS

WINONA WOOD

C. W. HALL

J. E. M. YOUNG

COURSES

B.Ed. ADVISORY COMMITTEE

D. C. MUNROE, *Chairman*

DEAN FIELDHOUSE

C. C. BAYLEY

C. W. HALL

F. K. HANSON

A. M. HENRY

J. E. LAUNAY

P. F. McCULLAGH

F. C. McINTOSH

C. D. SOLIN

R. H. WALKER

WINONA WOOD

J. E. M. YOUNG

CALENDAR FOR THE SESSION 1960-61

1960

August 22nd, Monday. Supplemental examinations begin, B.Sc.(Agr.), B.Sc.(H.Ec.) courses, and the Institute of Education academic courses.

September 7th, Wednesday. Registration, Institute of Education.
Second and Third year students report for practice teaching.

September 8th, Thursday. Lectures begin, Institute of Education.

September 19th, Monday. Lectures begin all years, Agriculture, Household Science, Handicrafts courses.

October 3rd, Monday, to October 5th, Wednesday. 1G Observation and Practice Teaching.

October 6th, Thursday, to October 7th, Friday. Teachers' Convention. No classes.

October 10, Monday. Thanksgiving Day. No classes.

November ———. Practice Teaching.

November 1st, Tuesday. Annual Assembly.

December 14th, Wednesday. Last day of lectures in first term, Agriculture and Household Science.

December 16th, Friday. Last day of lectures in first term, Institute of Education.

December 16th, Friday, to December 22nd, Thursday. First term examination period, B.Sc.(Agr.), B.Sc.(H.Ec.).

December 17th, Saturday, to December 22nd, Thursday. First term examination period, Institute of Education.

INSTITUTE OF EDUCATION

1961

January ———. Practice Teaching.

January 3rd, Tuesday. Second term begins, Institute of Education.

January 9th, Monday. Second term begins, Agriculture and Household Science.

February 10th, Friday. Macdonald College Founder's Day. No afternoon classes. (Sir William Macdonald, born February 10th, 1831, died June 9th, 1917.)

February 23rd, Thursday. Macdonald Royal. No classes.

March 31st, Friday, to April 3rd, Monday. Easter Vacation.

April ———. Practice teaching.

April 14, Friday. Last day of lectures, Agriculture and Household Science.

April 17th, Monday. Final examinations begin, B.Sc.(Agr.), B.Sc.(H.Ec.) courses and the Institute of Education academic courses.

May 1st, Monday, to May 12th, Friday. Practice teaching period, Institute of Education.

May 17th, Wednesday. Examinations begin, First year and all diploma courses, Institute of Education.

May 31st, Wednesday. Convocation.

June 4th, Sunday. Divine Service, Institute of Education and Handicrafts students.

June 5th, Monday. Graduation Exercises, Institute of Education, School of Household Science and Handicrafts students.

HISTORICAL INFORMATION

The McGill Normal School was founded in 1857 under an agreement between the Government of the Province of Quebec and McGill University. In 1907, following a further agreement subsequently confirmed by an Act of the Legislature (7 Edward VII, Chapter 26), the School was moved to Ste. Anne de Bellevue where, as the School for Teachers, it became part of Macdonald College. Since that time it has operated as a school of the University under the jurisdiction and control of the Protestant Committee of the Council of Education and of the University.

At the time the School was moved from Montreal, the Macdonald Chair of Education was endowed at McGill University and a department was established to prepare candidates for the High School Diploma. In 1930 the Department inaugurated a course leading to the M.A. (Education). The School for Teachers and the Department were combined in 1954.

COURSES

The McGill School of Physical Education, which began as a summer school in 1912, introduced a full year course in 1916. In 1933 the curriculum was reorganized and a three year diploma course was offered. It was replaced in 1945 by the B.Ed.(P.E.) degree course. A two-year course leading to a Class II diploma is also provided.

The Institute of Education was established in 1955 within the Faculty of Arts and Science. The work of the Institute is carried on partly at McGill University, partly at Macdonald College, and in summer sessions conducted in cooperation with the Department of Education, Quebec.

COURSES OFFERED

COURSES	ADMISSION REQUIREMENT	LENGTH OF COURSE
Faculty of Arts and Science		
B.Ed. (and Class I Diploma)	as for B.A. or B.Sc. (McGill)	4 years
B.Ed.(P.E.) (and Class I Diploma)	as for B.A. or B.Sc. (McGill)	4 years
<hr/>		
Central Board of Examiners (Quebec)		
Class I Diploma	University degree with prerequisites	1 year
Class II Diploma	Senior High School Leaving <i>or</i> Junior High School Leaving	1 year 2 years
Class II Diploma (P.E.)	Junior High School Leaving	2 years
Class III Diploma	Junior High School Leaving	1 year
Kindergarten Specialist (see page 4813)		
<hr/>		
Faculty of Graduate Studies and Research		
M.A. (Education)	University degree of satisfactory standing and teaching diploma	2 summer sessions and 1 winter session
Diploma in School Supervision	as for M.A.	as for M.A.

INSTITUTE OF EDUCATION

DESCRIPTION OF COURSES—ADMISSION REQUIREMENTS

Graduate Courses—M.A. (Education) and Diploma in School Supervision

These courses are intended for teachers who wish to undertake graduate studies. The program is planned in three stages, two of which are given in five-week summer sessions at Macdonald College. During the intervening winter session, weekly seminars are held in each of four areas of concentration. The student may register either full or part time. A thesis is required for the degree of M.A.

Undergraduate Courses—B.Ed. and B.Ed.(P.E.)

These four-year courses combine the academic work required for a degree with professional training which prepares the student to teach at any level of the elementary or high school. The B.Ed. (P.E.) course, which is designed for students wishing to prepare for specialist teaching in physical education, offers a curriculum similar in academic content to that of the B.Ed. degree. Professional training is also similar, except that the methods and the practice teaching experiences are directed toward teaching in the gymnasium as well as in the classroom. The first two years of the degree courses are given at Macdonald College; the Third and Fourth years are given at McGill University. Graduates of the B.Ed. course receive the B.Ed. degree and the Class I Diploma; graduates of the B.Ed. (P.E.) course receive the B.Ed. degree, the Class I Diploma and the Diploma in Physical Education.

Admission Requirements: For admission to the First year of either course, a candidate must fulfil the requirements for admission to the First year of the B.A. or B.Sc. (McGill) course, i.e.,

A. He must obtain the necessary standing in each of the ten McGill Junior School Certificate papers listed below, or their recognized equivalents, obtaining an average of at least 65% on the examination as a whole:

<u>No. of Papers</u>	<u>Subjects</u>
2	English
1	General History
2	Latin <i>or</i> Greek
2	French, Latin, Greek, German, <i>or</i> Spanish (a language not already chosen)
2	Elementary Algebra and Elementary Geometry

DESCRIPTION OF COURSES

- 1 (option) One of the following: Biology, Botany, Chemistry, Drawing, Geography, British *or* Canadian History, Physics, Music, Intermediate Algebra, Trigonometry, *or* a foreign language not already chosen (the average of two foreign language papers is counted).
-
- 10

OR

B. He must obtain the necessary standing in each of the ten McGill Junior School Certificate papers listed below, or their recognized equivalents, obtaining an average of at least 70% on the examination as a whole:

<u>No. of Papers</u>	<u>Subjects</u>
2	English
1	General History
2	French <i>or</i> German (both papers)
1	Elementary Algebra
1	Elementary Geometry
1	One of the following: Biology, Botany, Chemistry, Physics
2 (options)	Either Latin <i>or</i> Spanish <i>or</i> French <i>or</i> German (if not already chosen) <i>or</i> any two of the following papers not already chosen: Intermediate Algebra, Trigonometry, Biology <i>or</i> Botany, Chemistry, Geography, Physics, Canadian History <i>or</i> British History, Music <i>or</i> Drawing.
—	
10	

OR

He may offer the Quebec Junior High School Leaving Certificate, or its equivalent, with one of the above patterns of courses, adding Agriculture, Household Science *or* North American Literature to the optional papers listed in A. or B.

Candidates who have completed the First year requirement for the B.A. or B.Sc. degree may transfer to the Third year of the B.Ed. or B.Ed.(P.E.) course after taking the one-year Class II Diploma course (see page 4812).

Candidates for entrance to the degree courses are required to meet the Admissions Committee of the School for Teachers before their applications are approved. These interviews will normally be arranged during the first week of the session.

Candidates whose mother tongue is not English are required to meet one or more members of the Central Board of Examiners for an interview before being definitely accepted. Candidates whose knowledge of English is inadequate may be required to attend a session at summer school as auditors prior to entering the School for Teachers.

DIPLOMA COURSES—CLASS I, CLASS II, CLASS III

Class I Diploma (one year). This program includes advanced courses in educational psychology, history and philosophy of education, and English throughout the session. Methods courses are so arranged that the student studies methods of teaching in the elementary school in a wide range of subjects in the first term, including the special subjects of Art, French, Music and Physical Education. In the second term he selects the grade level for which he desires special preparation—primary, elementary or junior high school. He also chooses an enrichment or background course in one of the special subjects. Practice teaching experiences are provided in a variety of grades.

Admission Requirements: An acceptable honours degree from an approved university or a general degree that includes the following courses:

- (i) First year courses in English, and four of the following subjects: French, Geography, History, Mathematics, Latin, Chemistry, Physics, Biology, Botany, Zoology, another acceptable ancient or modern language.
- (ii) Continuation courses in at least two of the First year subjects listed above.

The Class I Diploma is also obtainable in conjunction with the four-year course leading to the Bachelor of Education degree (see page 4810).

Class II Diploma (one year). This program includes two courses in English; Teaching Prerequisite courses (which offer training in skills and enrichment of background necessary for teaching purposes) in Art, French, Music and Scripture; courses in educational psychology, history of education, general teaching methods and special subject methods; and practice teaching experiences.

Admission Requirements: A Quebec Senior High School Leaving Certificate, or its equivalent, showing passes in English and four additional subjects, and a certificate showing that the candidate has passed in ten papers of the Grade XI examinations. Candidates for admission to this class should be at least eighteen years of age before January 1, 1961.

Class II Diploma (two years). Students wishing to prepare for the Class II Diploma in two years may do so through a curriculum which includes

DESCRIPTION OF COURSES

seven academic subjects. Professional training includes courses in educational psychology, history of education, special child studies, methods courses and practice teaching experiences. The program is the same as that offered in the first two years of the B.Ed. course.

Admission Requirements. The admission requirements are the same as those for the Class III Diploma (see below).

Class II Diploma (P.E.) (two years). This program is similar to that of the regular Class II Diploma course described above, except that the student's courses and practice teaching experiences are directed toward teaching in the gymnasium as well as in the classroom. The program corresponds to that offered in the first two years of the B.Ed.(P.E.) course.

Admission Requirements. The admission requirements are the same as those for the Class III Diploma (see below).

Class III Diploma (one year). Students taking this program have courses in English, Canadian History, educational psychology, history of education and teaching methods; Teaching Prerequisite courses in Arithmetic, Art, French, Music, Science (including Geography and Health) and Scripture; and experiences in practice teaching.

Admission Requirements. A Quebec Junior High School Leaving Certificate, or its equivalent, showing passes in ten papers with a total of at least 600 marks. The papers required are English (Literature and Composition), French (Oral and Written), and six papers from the following list:

Chemistry, Physics, Biology, Geography, Elementary Algebra, Geometry, History, Music, Intermediate Algebra, Trigonometry, North American Literature, Home Economics, Latin Authors and Composition, Latin Poetry and Sight, Spanish, Bookkeeping, Stenography and Secretarial Practice, Typewriting and Office Procedure, Agriculture, Industrial Arts, Technical Drawing or Art.

Candidates for admission to this class should be at least seventeen years of age before January 1, 1961.

Kindergarten Specialists. Training for kindergarten work may be obtained in conjunction with the Class III Diploma, the one-year or two-year Class II Diploma, the one-year Class I Diploma, or the four-year course leading to the B.Ed. degree and Class I Diploma. Candidates must fulfil the regular admission requirements for these Diplomas.

Students specializing in kindergarten work follow substantially the same programs as students in the regular Diploma courses, except in methods and practice teaching. Special courses include the history and

INSTITUTE OF EDUCATION

theory of the kindergarten. Special training is given in art, handicrafts, music, physical education. Students do practice teaching in the kindergarten at Macdonald High School, in other selected schools and in the Montreal Day Nursery.

Admission Requirements. In addition to fulfilling the regular admission requirements, candidates must satisfy the Director of the School for Teachers that they have special proficiency in vocal and instrumental music. The standard to be aimed at on the piano might be the equivalent of the Junior Grade Certificate of the McGill Conservatory of Music, though exceptions will be made for suitable candidates. The vocal requirement calls for voice of good quality suitable for modelling songs for junior classes and the ability to sing in tune while playing accompaniments.

To prevent disappointment, candidates desiring to enter the kindergarten should submit a statement of their qualifications in music to the Director of the School for Teachers for his approval by June 1, 1960.

Candidates for admission to kindergarten training should possess special qualities of sympathy and interest necessary for success in teaching young children.

APPLICATION PROCEDURE

All candidates for degrees or diplomas must make application to the Central Board of Examiners, Quebec, by June 30, 1960. The necessary forms, including those requesting residence accommodation, may be obtained through the Institute of Education. When completed, all forms *except those concerning residence* should be sent to the following address:

The Secretary,
Central Board of Examiners,
Department of Education,
Parliament Buildings,
Quebec.

Residence applications should be sent directly to the Institute.

Degree candidates should apply also to the Institute of Education.

FEES

The University reserves the right to make changes without notice in its published scale of tuition, board and room and other fees. Fees are not refundable except under special conditions.

ADMISSION, FEES

1. TUITION FEES.

These fees include all the regular charges for registration, laboratories, libraries, Health Service, student activities.

M.A.(Education).....	\$425
Diploma in School Supervision.....	275
B.Ed. and B.Ed.(P.E.) 1st year.....	225
2nd year.....	225
3rd year.....	425
4th year.....	425
Diploma Courses	225

2. SPECIAL FEES AND PENALTIES.

Student Teachers' Society (all students)	\$ 1
Late registration (unless excused by the Director).....	5
Late payment (after specified date).....	2
Conferring of degree or presentation of diploma in absentia	10
Duplicate diploma.....	10
Transcript of record.....	1
Supplemental examination, per paper.....	2

3. STUDENT ACTIVITY FEE—Macdonald College

There are various student activities, such as the athletic associations, literary and debating societies, publications, class societies, etc., which the students are expected to support. The affairs of these organizations are in the hands of the students themselves and their operations are financed from a student activity fee, \$16.00 of which is included in the tuition fee and \$10.00 of which is a special fee collected at the time of registration.

4. BOARD AND RESIDENCE (per session, exclusive of Christmas vacation)

Macdonald College.....	\$575
McGill University residences (Douglas and Wilson Halls).....	685
(Royal Victoria College).....	730

DIVISIONS OF THE INSTITUTE

Courses in the Institute are grouped in six divisions:

- DIVISION 1: General Education
- DIVISION 2: Foundations of Education
- DIVISION 3: Methods of Instruction
- DIVISION 4: Practice Teaching
- DIVISION 5: Graduate Studies and Research
- DIVISION 6: Physical Education

INSTITUTE OF EDUCATION

BACHELOR OF EDUCATION

Division 1	Division 2	Division 3	Division 4
FIRST YEAR			
English 101, 116	Ed. 105 Educational Psychology	Ed. 110 Introduction to Classroom Teaching	Ed. 120 Practice Teaching
History 100		Ed. 111 Special Methods: Physical Education	
French 100	Ed. 200 History of Education	Ed. 112 Basic Methods of Instruction	
Math 110 or Latin 100			
SECOND YEAR			
English 100B, 225	Ed. 206 The Child at School	Ed. 111 Special Methods: Art, Music, French	Ed. 220 Practice Teaching
2 options from Biology 120 Chemistry 110 Fine Arts 100 Geography 211 History 210 Latin 100 (if not taken in first year) or Latin 200 Maths 220 Music 100 Physics 112		Ed. 112 Basic Methods of Instruction	
THIRD YEAR			
2 continuation subjects	Psychology 33 or 34 or Sociology 210 or Anthropology 220	Ed. 310 Educational Measurement	Ed. 320 Testing and Remedial Teaching
1 option			

COURSES OF LECTURES

FOURTH YEAR

2 continuation subjects	Ed. 400 Philosophy of Education	Ed. 410 Special Curriculum Programs	Ed. 420 Internship
1 option			

The two-year Class II Diploma course follows the same pattern as the first two years of the B.Ed. degree course, *except* that students may choose Biology in the First year in place of Maths or Latin.

BACHELOR OF EDUCATION (Physical Education)

Division 1	Division 2	Divisions 3 and 6	Division 4
FIRST YEAR			
English 101, 116	Ed. 105 Educational Psychology	Ed. 110 Introduction to Classroom Teaching	Ed. 125 Practice Teaching
History 100			
Biology 120	Ed. 200 History of Education	Ed. 112 Basic Methods of Instruction	
Maths 111, 112 <i>or</i>		Ed. 115 Physical Education in the Elementary School	
Latin 100			
SECOND YEAR			
English 100B, 225	Ed. 207 Special Studies of the Child at School	Ed. 112 Basic Methods of Instruction	Ed. 225 Junior High School Practice Teaching
Anatomy 100			
1 option from those for B.Ed., <i>excepting</i> Biology 120 and <i>adding</i> French 100.		Ed. 215 Physical Education in the Junior High School	

INSTITUTE OF EDUCATION

THIRD YEAR

2 continuation subjects	Psychology 33 or 34 <i>or</i>	Ed. 315 Physical Education in the Senior High School	Ed. 325 Senior High School Practice Teaching
1 option	Sociology 210 <i>or</i> Anthropology 220		

FOURTH YEAR

2 continuation subjects	Ed. 400 Philosophy of Education	Ed. 415 School and Community Programs	Ed. 425 • Internship
1 option			

The two-year Class II (P.E.) Diploma course follows the same pattern as the first two years of the B.Ed.(P.E.) degree course, *except* that students may take Geography 211 in the First year in place of Maths or Latin.

COURSES OF LECTURES

Class I Diploma (One Year)	Class II Diploma (One Year)	Class III Diploma (One Year)
Division 1	Division 1	Division 1
English 500B, 500C Teaching Prerequisites	English 101B, 225 Teaching Prerequisites	English 100B History I Teaching Prerequisites
Division 2	Division 2	Division 2
Ed. 500 Development of Educational Institutions	Ed. 200 History of Education	Ed. 1 Educational Psychology
Ed. 501 Educational Psychology	Ed. 205 Educational Psychology	Ed. 2 History of Education
Ed. 502 Philosophy of Education		
Division 3	Division 3	Division 3
Ed. 511 Special Subject Methods	Ed. 111 Special Subject Methods	Ed. 111 Special Subject Methods
Ed. 512 General Teaching Methods	Ed. 112 Basic Methods of Instruction	Ed. 112 Basic Methods of Instruction
Division 4	Division 4	Division 4
Ed. 520 Advanced Practice Teaching	Ed. 120 Practice Teaching	Ed. 120 Practice Teaching

INSTITUTE OF EDUCATION

COURSES OF LECTURES:

- (3) Class III Diploma (one year)
- (2S) Class II Diploma (one year)
- (1G) Class I Diploma (one year)
- (F) All Freshmen (First year students)
- (FBD) Freshmen, B.Ed. degree and Class II Diploma (two years)
- (FP) Freshmen, B.Ed. (P.E.) degree and Class II Diploma P.E. (two years)
- (2) All Sophomores (Second year students)
- (2BD) Sophomores, B.Ed. degree and Class II Diploma (two years)
- (2P) Sophomores, B.Ed. (P.E.) degree and Class II Diploma P.E. (two years)

DIVISION I: GENERAL EDUCATION

Professors

FRANK K. HANSON, *Chairman*
C. WAYNE HALL
ARTHUR M. HENRY
F. CYRIL JAMES
DAVID C. MUNROE
WILLIAM ROWLES
(*Agriculture*)

Associate Professors

S. C. M. HAWKINS
FRANK O. MORRISON
(*Agriculture*)

Assistant Professors

ERIC O. CALLEN
(*Agriculture*)
RUTH DUNCAN
A. ELIZABETH JAQUES
H. MORRISON
R. VOGEL

Lecturers

F. A. C. DOXSEE
G. O. HENNEBERRY
(*Agriculture*)
R. GOLD
KELSEY JONES
(*Faculty of Music*)
J. W. KERR
G. MCELROY
G. MICHIE
DOROTHY NICHOL

ANATOMY 100: Functional Anatomy and Human Biology.
3 lects. a week. (2P)

COURSES OF LECTURES

BIOLOGY

120. An integrated course in general biology.

3 lects., 2 labs. a week. (FP, 2BD)

Professor F. O. Morrison

Professor Callen

CHEMISTRY

110. Inorganic Chemistry

3 lects., 2 labs. a week. (2)

Mr. Henneberry

ENGLISH COMPOSITION

101. A course in oral English designed to assist student teachers in improving their voice, diction and delivery and to instruct them in the techniques of discussion and the conduct of meetings. (F)

1 hour a week.

The Staff

- 100B. Advanced work in grammar, usage and composition as a background to classroom teaching. (3, 2)

1 hour a week.

The Staff

- 500B. An advanced course in oral English. (1G)

1 hour a week, first term.

The Staff

- 500C. A practical course in written expression designed to assist the student in classroom work. (1G)

1 hour a week.

The Staff

- 101B. A combination of 100B and 101. (2S)

1 hour a week.

The Staff

ENGLISH LITERATURE

116. A study of forms in literature from Anglo-Saxon times to about 1880. (F)

2 hours a week.

MODERN LITERATURE

225. Readings and discussions of work of British, Canadian and American writers from 1880 to the present. (2, 2S)

2 hours a week.

Professor Hall

FINE ARTS

100. The aim of this course is the development of an awareness of art forms through the stimulation of a sense of design, a sense of the graphic and plastic. The course will include sketching and painting, as well as experience with other media, art criticism, and the study of design as exemplified in interior decoration, pottery and furniture and textiles.

Three hours a week. (2)

Professor Jaques

INSTITUTE OF EDUCATION

FRENCH

100. French is used exclusively by lecturers and students in this course.

(a) *Travail oral*: The aim of this section of the course is to increase fluency, accuracy, and precision in speaking French. Assignments vary according to the interests and capabilities of the students.

(b) *Cours de civilisation*: A survey course of French history; biographical and literary aspects are stressed.

3 hours a week. (FBD, 2P)

Professor Hawkins and Mr. McElroy

GEOGRAPHY

211. *Introduction to Human Geography*. The relation of early man to the environment; the beginnings of agricultural and pastoral economies. The major physical zones of the earth, the varieties of human society typical of each, and the place of each zone in world trade and food production. (2)

3 hours a week.

Mr. G. Michie (Faculty of Arts and Science)

HISTORY

1. *Text*: Lower, Arthur R. M., *Colony to Nation*, Toronto, Longmans, Green and Company (third edition) 1957. A history of Canada from the arrival of the Europeans to the present day. The aim of the course is to provide future teachers with a more thorough understanding of the origins and development of contemporary Canadian social and political institutions. Considerable attention is given to library reading and the writing of papers. (3)

3 hours a week.

Professor H. D. Morrison

100. *Economic History*. A survey of the evolution of economic institutions from the ancient empires in Sumaria and Egypt to the outbreak of war in 1939. The course reviews the continuity of economic activities from the early empires through Greece and Rome; the manorial organization of the early Middle Ages; the revival of towns, commerce and financial institutions; the widening of geographical and intellectual horizons; the industrial revolution and colonization; the economy of the 19th century; the first world war and the breakdown of the war economy after 1931. (F)

3 hours

Professor James

210. *English History*. (2)

Mr. R. Vogel (Faculty of Arts and Science)

LATIN

100. *Texts*: Petrie, Latin Reader; Bonnie and Niddrie, Latin Prose Composition. (F, 2)

3 hours a week.

Mr. R. Gold (Faculty of Arts and Science)

COURSES OF LECTURES

200. *Texts:* To be announced. (2)

3 hours a week.

Mr. R. Gold

MATHEMATICS

110. Plane Trigonometry, Algebra, Analytical Geometry. (F)

3 hours a week.

Professor Henry

220. Calculus. (2)

Professor Rowles

MUSIC

100. *Prerequisite:* Rudiments of Music (Junior Grade, McGill or equivalent standing, or entrance examination).

(a) *History.* A survey of the development of musical styles, composers, and works for the period 1600-1900.

(b) *Form and Analysis.* Elementary principles of form. 17th and 18th century forms. Analysis of short piano works.

(c) *Harmony.* Transposition; key and time; harmonic analysis; melody harmonization (root and first inversion triads; dominant 7th in root form; cadential six-fours); dominant 7ths in all positions.

(d) *Aural training.* Intervals and chords; dictation in simple time; simple modulation; melodic analysis; sight reading. (2)

3 hours a week.

Dr. Jones (Faculty of Music)

PHYSICS

112. General Physics.

3 lects., 1 lab. a week. (2)

Professor Rowles

TEACHING PREREQUISITES

Terminal courses which offer training in skills and enrichment of background necessary for teaching purposes. One hour weekly for each course.

1G: choice of one from Art, French, Music, Physical Education (second term only).

Arithmetic 1 (3)

Professor Crook

Art 1 (3, 2S)

Professor Jaques

French 1 (3, 2S)

Professor Hawkins and Mr. McElroy

Music 1 (3, 2S)

Professor Hanson

Science 1 (Geography, Health, Science) (3)

The Staff

Scripture 1 (3, 2S)

Mr. Doxsee and Mr. Kerr

INSTITUTE OF EDUCATION

DIVISION II: FOUNDATIONS OF EDUCATION

<i>Associate Professor</i>	J. E. M. YOUNG, <i>Chairman</i>
<i>Professors</i>	D. C. MUNROE J. S. THOMSON
<i>Associate Professor</i>	A. B. CURRIE
<i>Assistant Professors</i>	FRANCES E. CROOK MARGUERITE HORTON PAUL E. NASH MURIEL TOMKINS MILES WISENTHAL

EDUCATION 1—Educational Psychology

An introductory course in educational psychology with emphasis on the following topics: child growth and development, individual differences, learning, educational measurement, mental hygiene. (3)

2 hours a week.

Professor Young
Professor Wisenthal

EDUCATION 2—History of Education

A brief survey of the development of education in Europe and America. (3)

1 hour a week.

Professor Munroe
Professor Wisenthal

EDUCATION 105—Educational Psychology

A study of the general characteristics of physical, social, and emotional development in children. Elementary educational and child psychology.

Growth and development of children through adolescence. Psychology of learning. Individual differences. Testing and measurement. Mental hygiene and educational guidance. (F)

3 hours a week.

Professor Crook

EDUCATION 200—The History of Education in Western Society

The history of education in Europe and America including a comparative study of the systems of public education in the countries of western Europe, in the United States, and in Canada. (F, 2S)

3 hours a week.

Professors Munroe, Currie, Nash and Wisenthal

EDUCATION 205—Educational Psychology

A course which emphasizes classroom applications of important psychological fields of study: child development, learning, motivation, individual differences, measurement, mental hygiene, elementary statistics. (2S)

2 hours a week.

Professor Young

COURSES OF LECTURES

EDUCATION 206

A study of the special problems of organization, instruction, motivation, discipline, and extra-curricular activities at representative grade levels in the elementary school, based on observation and the development of anecdotal records and case histories.

3 hours a week (1 lecture, 1 two-hour laboratory period). (2BD)

Professors Young and Wilkinson

EDUCATION 207. (2P)

Similar to Education 206, based on observation of gymnasium classes.

Professor Wilkinson

EDUCATION 300—Comparative Education

The evolution of educational theory and practice in Europe. The development of modern educational institutions in European states and their adaptation in colonial societies. Educational practice in Canada and the United States, the development of education in the new states of Asia and Africa (open to students in their 3rd and 4th years, other than B.Ed. and B.Ed(P.E.) students).

3 hours a week. (*Given at McGill University*)

Professors Munroe and Nash

EDUCATION 400—Philosophical Foundations of Education

An examination of significant philosophical ideas which have influenced Western education. (4th year B.Ed. students)

3 hours a week. (*Given at McGill University*)

Professor Thomson

EDUCATION 500—The Development of Educational Institutions

A study of educational development and institutions in various countries, with special emphasis on the evolution of modern practices. (1G)

2 hours a week.

Professor Munroe

EDUCATION 501—Educational Psychology

A study of the general characteristics of physical, social, emotional and intellectual development, the psychology of learning and the growth and development of personality, with special emphasis on the problems of adolescence. (1G)

3 hours a week.

Professor Young

INSTITUTE OF EDUCATION

EDUCATION 502—Philosophy of Education

An examination of significant philosophical ideas which have influenced Western education. (1G)

2 hours a week.

Professor Nash

SCHOOL LAW (all students)

1 hour a week, second term.

Professor Hall

DIVISION III: METHODS OF INSTRUCTION

Professors

C. WAYNE HALL (*Chairman*)

FRANK K. HANSON

ARTHUR M. HENRY

Associate Professors

ALEXANDER B. CURRIE

S. CHRISTOPHER M. HAWKINS

Assistant Professors

PHYLLIS BOWERS

FRANCES CROOK

RUTH DUNCAN

MARGUERITE HORTON

ELIZABETH JAKES

HARRY D. MORRISON

MURIEL TOMKINS

Lecturers

SHIRLEY MCNICOL

DOROTHY NICHOL

EIGIL D. PEDERSEN

FRANGA STINSON

EDUCATION 11

The origin and development of Kindergarten and Nursery School Programs.

5 hours a week. (Kindergarten)

Professor Bowers

EDUCATION 110—Introduction to Classroom Teaching

1 hour a week, first term. (F)

Professor Hall

EDUCATION 111—Special Subject Methods

(a) French (3, 2S) 1 hour a week.

Professor Hawkins and Mr. McElroy

(2BD) 1 hour a week second term.

(b) Health and Physical Education (3, 2S, FBD) 1 hour a week.

Miss Nichol

COURSES OF LECTURES

(c) Music (3, 2S, 2BD) 1 hour a week.

Professor Hanson

(d) Art (3, 2S, 2BD) 1 hour a week.

Professor Jaques

EDUCATION 112—Basic Methods of Instruction

Curriculum development, lesson planning and general methods of instruction in basic subjects; observation in demonstration classrooms at Macdonald Elementary and High Schools.

EDUCATION 112A (Primary)

3, 2S women, 5 hours a week, one term.

FBD women, 5 hours a week, second term.

EDUCATION 112B (Elementary)

3, 2S women, 5 hours a week, one term.

3 (men) and 2S (men), 5 hours a week, first term.

2BD women, 5 hours a week, first term.

FBD men, FP, 5 hours a week, second term.

EDUCATION 310—Educational Testing and Measurement

The preparation and use of objective tests by the classroom teacher. Interpretation of test results and their use in improving instruction.

3 hours a week. (3rd year B.Ed. students)

Professor Crook

EDUCATION 410—Special Curriculum Programs

3 hours a week. (4th year B.Ed. students)

Professor Currie

EDUCATION 411—General Instructional Practice (For students in Music, and in the Teaching Option, B.Sc.(H.Ec.) course)

EDUCATION 511—Special Subject Methods

1 hour a week each, first term only. (1G)

(a) French

Professor Hawkins

(b) Health and Physical Education

Miss Nichol

(c) Music

Professor Hanson

(d) Art

Professor Jaques

EDUCATION 512—General Teaching Methods

Curriculum organization, lesson planning, teaching methods and media, classroom observation. (1G)

5 hours a week.

Professor Hall

INSTITUTE OF EDUCATION

DIVISION IV: THE PRACTICE OF TEACHING

Professor

ARTHUR M. HENRY, *Chairman*

All members of the staff assist in the supervision of practice teaching.

EDUCATION 120—Observation and Classroom Practice Teaching

One Year Diploma Students. (3, 2S)

- (a) Observation and practice in schools (January).
- (b) Observation and practice in schools (April).

First Year Students. (FBD)

- (a) Observation of teaching, 1 week (January).
- (b) Observation and practice in schools (April).

EDUCATION 220—Practice in School and Community Programs (2BD)

- (a) School opening procedures and practice (September).
- (b) Observation and practice in school review procedures (May).

EDUCATION 320—Testing and Remedial Teaching (3rd year B.Ed. students)

Individual and group testing and remedial teaching with Demonstration Staff: (a) September, (b) May.

EDUCATION 420—Internship (4th year B.Ed. students)

- (a) School administration under selected principals (September).
- (b) Co-operative teaching with selected teachers (May).

EDUCATION 520—Class I (1G) Practice Teaching

- (a) Observation of teaching, 3 days (October).
- (b) Observation and practice in schools, 2 weeks (Nov.-Dec.) and 2 weeks (January).
- (c) Advanced practice teaching, 2 weeks (April).

DIVISION V: GRADUATE STUDIES AND RESEARCH

Professors

REGINALD EDWARDS, *Chairman*

C. WAYNE HALL

F. K. HANSON

D. C. MUNROE

Associate Professor

A. B. CURRIE

Assistant Professors

FRANCES E. CROOK

PAUL E. NASH

MILES WISENTHAL

COURSES OF LECTURES

ENTRANCE REQUIREMENTS

First Class Diploma or the equivalent B.Ed. degree with at least second class standing.

Candidates entering with degrees other than the B.Ed. (McGill) must present a degree from an approved university with second class standing in at least one continuation subject. To meet the requirement for entrance they may take the following courses in a qualifying summer or winter session:

EDUCATION 600—Educational Measurement (Education 310 or 501)

EDUCATION 601—Studies in Educational Thought (Education 400 or 500)

Candidates from other universities may also be permitted to qualify by writing a comprehensive examination in Educational Theory and Practice.

PROGRAM OF THE COURSE

The course begins with a Summer Session in July which is followed by a Winter Session and a second Summer Session. It may be completed in a minimum of fifteen months.

First Summer

EDUCATION 610—Modern Educational Practice

EDUCATION 611—Methods of Educational Study and Research

Winter Session

EDUCATION 620—Studies in Comparative Education

EDUCATION 621—Thesis Preparation

Second Summer

EDUCATION 630—Modern Studies in Educational Psychology

EDUCATION 631—The Administration of Education in Canada

During the first Summer Session students attend seminars in Modern Educational Practice and Methods of Educational Research. The purpose of these studies is to give the candidate a broad and thorough preparation for choosing an area of concentration and subject for the graduate thesis.

During the Winter Session students choose one of the following areas of concentration:

1. Methods of Teaching a Special Subject
2. History and Philosophy of Education
3. Educational Psychology and Sociology
4. Educational Administration

INSTITUTE OF EDUCATION

Conferences are held in each of these subjects and the candidate begins his research project and the preparation of a thesis under the director of research in his special area of study. Monthly seminars take place in Comparative Education.

During the second Summer Session seminars are held in Modern Studies in Educational Psychology and the Administration of Education in Canada. They are intended to assist the student in applying his research to modern educational programs and institutions.

McGILL DIPLOMA IN GRADUATE STUDIES IN EDUCATION

The McGill Diploma in Graduate Studies in Education is offered for graduates of a recognized university who wish to qualify for administrative or supervisory positions as principals, inspectors, subject supervisors, or county supervisors. Candidates for the Diploma are required to attend two summer sessions and to participate in seminars and directed study during the intervening winter session. For details, apply to the Director of Summer School, Macdonald College, Quebec.

DIVISION VI: PHYSICAL EDUCATION

Associate Professor
Assistant Professors

WINONA WOOD, *Chairman*
ROBERT E. WILKINSON
RUTH M. DUNCAN

Lecturers

DOROTHY M. NICHOL
MARGARET WALKER

EDUCATION 115—Physical Education in the Elementary School

This course deals with the methods and skills necessary for teaching physical education in the elementary school, including suitable gymnasium and outdoor activities based on fundamental principles of movement.

EDUCATION 125—Observation, Classroom and Gymnasium Practice

Similar to 120 (see Division IV) except that duties will be partly in classroom and partly in gymnasium.

EDUCATION 215—Physical Education in the Junior High School

This course deals with methods and skills necessary for teaching physical education in junior high school, including rhythms, aquatics, individual and team games and gymnastics.

EDUCATION 225—Advanced School Practice

Classroom and specialized practice in September and May at the junior high school level.

COURSES OF LECTURES

EDUCATION 315—Physical Education in the Senior High School

This course deals with methods and skills necessary for teaching physical education in the secondary school, including team and individual games, gymnastics, dance, and testing and measurement.

EDUCATION 325—Observation and Remedial Practice

In classroom and gymnasium in the senior high school.

EDUCATION 415—School and Community Programs

This course deals with the problems of organizing school and community programs, including intra-mural and inter-scholastic athletics, community recreation, aquatics, camping, school and community health.

EDUCATION 425—Internship in general and specialized teaching.

SPECIAL REQUIREMENTS OF DIVISION VI

All students—*Red Cross Swimming Instructors' Course*

This course is required of all students before completion of Second year.

All Women students—*Basketball Referee Course.*

This course is required of all women students before completion of Second year.

Degree Students only:

**Camping Course*—September 2nd to 8th inclusive, at beginning of Second or Third year, in the Laurentian Mountains.

**Ski School*—A week of instruction, in January of the Third year, in the Laurentian Mountains.

*The costs of the Camp Course and Ski School are not included in the tuition fee. These will be approximately \$15.00 for Camp Course and \$25.00 for Ski School.

Outdoor School—A three-week period in May, at the end of the Third year, including intensive instruction in outdoor activities.

Field Work—After completion of the Second year, students in the B.Ed. (P.E.) course are required to devote a minimum of four weeks to field work during the summer. This field work must be approved by the Chairman of Division VI.

INSTITUTE OF EDUCATION

COSTUME AND EQUIPMENT

Regulation costumes must be worn in all physical education classes.

For men these will include sweat suit, shorts, T shirts, teaching greys. The cost will be approximately \$40.00 payable at the beginning of the First year.

For women these will include T shirts, shorts, tunic and cotton blouses. The cost will be approximately \$25.00 payable at the beginning of the First year.

All students are required to wear white gym footwear. Students are also responsible for providing their own sports equipment including ski equipment, skates, hockey sticks, tennis racquets, etc.

ADVISORY PROGRAM

The aim of the advisory program is to encourage a closer relationship between students and staff members than can be achieved through classroom contacts. At the beginning of the session each student is assigned to an advisor to whom he can turn for help with his particular problems. It is also the advisor's duty to interview each of his students following practice teaching periods, informing him of the results and counselling him concerning any difficulties he may have had. Meetings of the entire group are held weekly to consider academic, professional and personal problems of general interest.

THE STUDENT TEACHING COMMITTEE

MR. R. S. PIBUS, <i>Protestant School Board of Greater Montreal</i>	} Co-chairmen
PROFESSOR A. M. HENRY, <i>Institute of Education</i>	
PROFESSOR PHYLLIS BOWERS, <i>Institute of Education, Secretary</i>	
MISS ROSALIE BRIGGS, <i>Protestant School Board of Greater Montreal</i>	
MR. M. DAVIES, <i>Headmaster, Macdonald High School</i>	
MRS. P. HOLCOMB, <i>Protestant School Board of Greater Montreal</i>	
PROFESSOR I. HONEY, <i>School of Household Science</i>	
MR. W. KYDD, <i>Principal, Maisonneuve School</i>	
MRS. FLORENCE MORRIS, <i>Assisting Teacher, Summerlea School</i>	
MR. F. OWEN, <i>Protestant School Board of Greater Montreal</i>	
MR. K. H. OXLEY, <i>Protestant School Board of Greater Montreal</i>	
MISS MARGARET STEELE, <i>Assisting Teacher, Sinclair Laird School</i>	
MR. W. A. WILKINSON, <i>Protestant School Board of Greater Montreal</i>	
PROFESSOR WINONA WOOD, <i>Institute of Education</i>	

ASSISTING TEACHERS

ASSISTING TEACHERS, DIVISION OF PRACTICE TEACHING

MONTREAL SCHOOLS

<i>Ahuntsic</i>	Mrs. Vandenberg; Mrs. Major; Miss Jupiter; Mrs. Murray; Mrs. Schlutz; Mrs. Raich; Mrs. Bell; Mrs. Harris; Mr. Creese.
<i>Alfred Joyce</i>	Miss Moscovitch; Miss Hughes; Mrs. Aldridge; Miss Farquharson.
<i>Algonquin</i>	Mrs. MacAdam; Mrs. MacKinnon; Mrs. Mitchell; Mrs. Johnson; Miss Tjelios.
<i>Bancroft</i>	Miss Lubin; Miss Brock; Miss Blitstein; Mrs. Dawang; Mrs. Goldstein; Mrs. Raskin.
<i>Bannantyne</i>	Mrs. Beauchamp; Miss Ford; Mrs. Chauvin; Miss Titley; Miss Martin.
<i>Barclay</i>	Miss Grill; Miss Kunigis; Miss Zwaig; Miss Neil; Mrs. Walter; Mr. Berger.
<i>Bedford</i>	Miss Protonotarios; Miss Sand; Mrs. Perelmutter; Mrs. Spink; Miss Smeed; Mrs. Barton.
<i>Bronx Park</i>	Mrs. Derry; Mrs. Pelley; Mrs. Balne.
<i>Carlyle</i>	Mrs. Smyth; Miss Krugar; Mrs. Roberts; Mrs. Van Beek.
<i>Cartierville</i>	Mrs. Wahlbert; Mrs. Shields; Mrs. Staniforth; Mrs. Jackson.
<i>Cecil Newman</i>	Mrs. Ender; Miss Teel; Mrs. Robb; Miss Mather.
<i>Central Park</i>	Miss Cook; Mrs. Scarlett; Miss Duncan; Mr. McCallum.
<i>Connaught</i>	Mrs. Brooks; Miss Ponchner; Mrs. Wilks; Miss Whitmore; Miss Pepler.
<i>Coronation</i>	Miss Taub; Mrs. Killen; Mrs. Shenkier; Mrs. Stein; Miss Taylor.
<i>Courtland Park</i>	Mrs. Cowe; Miss Gilmour; Mrs. Johnston; Miss Bulford; Mrs. Conran-Smith; Mrs. Gibson; Mrs. Woodin; Mrs. Miller; Mr. Jones; Mrs. Raudorf.
<i>Crawford Park</i>	Mrs. Bennett; Mrs. Frey; Mrs. Laws; Mr. Noel; Mrs. Clegg.
<i>Devonshire</i>	Miss Kessler; Mrs. Herscovitch; Mrs. Morrill; Mrs. Mills; Miss Garmaise.
<i>Dorval Gardens</i>	Mrs. Garrow; Miss Gyton; Mrs. Davis; Miss Rutherford; Mrs. Wilson; Mrs. Brooks; Mrs. Moore; Mrs. Ramsay; Miss Williamson; Mrs. McLellan.

INSTITUTE OF EDUCATION

<i>Drummond</i>	Mrs. Jackson; Miss Stamos; Mr. Haydock; Miss McKee.
<i>Dunrae Gardens</i>	Mrs. Seigny; Miss Ferguson; Miss Higgs; Mrs. Sanders; Miss Craib; Mr. Russell.
<i>Edinburgh</i>	Mrs. Pedersen; Mrs. Payne; Mrs. Futchter; Miss Berry; Miss Tarder; Miss Irvine; Mr. Lewis.
<i>Edward VII</i>	Mrs. Copnick; Mrs. Silverman; Miss Chaikelson; Miss Eklove; Miss Natov.
<i>Elizabeth Ballantyne</i>	Miss Layzell; Miss Clarke; Mrs. MacAllister; Mrs. Lavell; Mrs. Oxley; Mrs. Clear
<i>Elmgrove</i>	Mrs. Willard; Miss Hayami; Miss McDougall; Mrs. Pedvis; Miss Playfair.
<i>Fairmount</i>	Mrs. Shugar; Mrs. Bercovitch; Miss Lifshitz; Mrs. Hamilton; Miss Saltzman.
<i>Gardenview</i>	Miss Davis; Mrs. Ferguson; Mrs. Skoll; Mrs. Boyle; Miss Ptack; Mrs. Nemetz.
<i>Guy Drummond</i>	Mrs. Ross; Mrs. Garber; Mrs. Mackay; Miss Etzkovitch; Miss Sokoloff; Miss Johnston; Miss Farquharson.
<i>Hampstead</i>	Miss Williams; Miss Bennett; Miss Swift; Miss Dupont.
<i>Herbert Symonds</i>	Mrs. McKinley; Miss Martin; Mr. Doherty; Miss Wilson; Mrs. Beer; Mrs. Hayes; Miss Sanders.
<i>High School of Montreal</i>	Mr. Bell.
<i>High School for Girls</i>	Miss Bain; Miss Smith.
<i>Iona Avenue</i>	Miss Reid; Mrs. Mullins; Mrs. Friedman; Mrs. Herman; Miss Brewer; Miss Brown; Mrs. Paterson; Mrs. Crites.
<i>John Grant</i>	Miss Koss; Mrs. Hammond.
<i>Kensington</i>	Mrs. Hunt; Miss Pearson; Miss Koch; Mr. Webber; Mrs. Martin; Miss Robinson; Miss Katz; Mrs. Richardson; Mrs. Moir.
<i>King's</i>	Miss Parker; Miss McCormick; Mr. Barr; Miss Robertson.
<i>Lachine High</i>	Mr. McLearn; Mrs. Pilon.
<i>Lachine Rapids</i>	Mrs. Johnston; Miss Dale; Mrs. MacLeod.
<i>Laurentide</i>	Miss Marshall; Miss Elliott; Miss McConnell; Miss Baum; Miss Marcovitch; Mrs. Jelinek.
<i>Logan</i>	Miss Rosenstein; Mrs. Ashkenazy; Miss Mead.

ASSISTING TEACHERS

<i>Lorne</i>	Miss Dancey; Miss MacNiven; Mrs. Jansen; Mrs. Marchment.
<i>Maisonneuve</i>	Mrs. Alcorn; Mrs. Zemnickis; Mrs. Singerman; Miss Habib; Mrs. Craig; Mrs. Nottidge.
<i>Maple Hill</i>	Mrs. Laishley; Mrs. Murray; Mrs. Lozinski; Mrs. Lancaster; Mrs. Month.
<i>Meadowbrook</i>	Mrs. Tabrett; Mrs. Millar; Mr. Rodgers; Miss MacLagan; Mr. Fulmer; Miss Meacock.
<i>Merton</i>	Mrs. Gittus; Mrs. Wener; Mrs. Charness; Mr. Mowat.
<i>Millar</i>	Mrs. Veverka; Miss Schwarz; Miss Olajos.
<i>Monklands High</i>	Mr. Firth.
<i>Montreal West</i>	Mrs. Demitre; Miss Wadsworth; Mrs. Britton; Miss Ward; Miss Buckingham; Miss Field.
<i>Morison</i>	Mr. Boule; Miss Wakefield; Mrs. Heazel; Mrs. Baran; Miss MacVicar.
<i>Mount Royal High</i>	Miss Wallbridge; Mr. Sims.
<i>Mountrose</i>	Mrs. George; Mrs. Stoddart; Miss Pawluk; Miss Dixon; Miss Mackay.
<i>Nesbitt</i>	Miss Kremin; Miss Freeman; Mrs. Hedges; Mrs. Kellett; Mrs. Scrimgeour; Mr. Widdop.
<i>Northmount High</i>	Mr. Wright; Miss Glezos; Miss Metcalf; Mr. Jonas.
<i>Ogilvie</i>	Miss Xenos; Mrs. Cohn; Miss Tiger; Miss Dubrofsky; Miss Piela.
<i>Outremont High</i>	Miss McPherson; Dr. Davidson.
<i>Parkdale</i>	Mrs. Stevenson; Mrs. Thompson; Mrs. Carew; Miss Carr; Mrs. McArthur; Mr. Decarie; Mrs. Jelinek.
<i>Peace Centennial</i>	Miss Kousaie; Mrs. McKelvey; Mrs. Allen; Mr. Noetzel.
<i>Queen's</i>	Mrs. MacRury; Mrs. Rowland; Miss Denison; Mrs. Papke.
<i>Riverview</i>	Miss Rennie; Miss Forth; Miss Lowson; Mrs. Stopps; Miss Fulford; Mr. Douglas; Miss Clark.
<i>Rosedale</i>	Miss Knee; Mrs. Marsh; Miss McOuat; Miss Edward; Miss Fletcher; Mr. Seary.
<i>Rosemount High</i>	Miss Weistner; Mr. Jakaib.
<i>Roslyn</i>	Mrs. Skinner; Mrs. Thorne; Miss Pedersen; Mrs. Robertson; Mrs. Ross.

INSTITUTE OF EDUCATION

<i>Royal Arthur</i>	Miss Goldstein; Miss Rossman; Mr. Leblanc; Miss Thompson.
<i>Royal Vale</i>	Mrs. Dobie; Mrs. Shepard; Miss Chaffey; Mrs. Douglas; Miss Gardner.
<i>Roxboro</i>	Mrs. Filiatrault; Mrs. Wilde; Mrs. Joyce; Mrs. Cook; Mrs. Hotte.
<i>Russell</i>	Miss Johnston; Mrs. Carmichael; Miss Schloen; Miss Rubin; Mrs. Shetler; Mrs. Marpole; Mr. Jack.
<i>Sarah Maxwell</i>	Mrs. Fradkin; Mrs. Burns; Mrs. McKelvey; Mrs. Helfield; Miss Vibert.
<i>Sinclair Laird</i>	Miss Wardleworth; Mrs. Ferguson; Mrs. Fothergill; Mrs. Burack; Mrs. Croney; Mr. Alleslev.
<i>Sir Arthur Currie</i>	Miss Garred; Miss Boretzky; Mrs. Mackay; Miss Hudson; Miss Cockerline; Miss Easton; Mr. Seary.
<i>Somerled</i>	Miss Laing; Mrs. Lyle; Miss Davies; Miss Parker; Mrs. Purcell; Miss Sederoff; Miss Laird; Mrs. Padveen; Mrs. Hunchak; Miss Gilmore; Mr. Clayton.
<i>Strathcona Academy</i>	Mrs. Boehnke; Miss Lyth; Miss Simpson; Miss Watts; Miss Salts; Miss Labelle.
<i>Strathearn</i>	Mrs. Rigdon; Mrs. Crook; Miss Segal; Miss York; Mrs. Valcov-Kwiatkowski; Mr. Mowat.
<i>Summerlea</i>	Mrs. Walker; Miss Kenworthy; Mrs. Stewart; Mrs. Cooper; Mrs. Morris; Mrs. Cloutier.
<i>Surrey Gardens</i>	Mrs. Daw; Mrs. Jones; Mr. Drysdale.
<i>Tetreaultville</i>	Mrs. Vucetic; Mrs. McKague; Mrs. Faulkner; Mr. Blane.
<i>Van Horne</i>	Miss Sirota; Miss Stones; Mrs. Steinman; Mrs. Rusk; Mrs. Ribkoff; Mrs. Hollander.
<i>Verdun High</i>	Miss Irwin.
<i>Victoria</i>	Miss Smirle; Mrs. Jones; Mrs. Moyse.
<i>Westbrook</i>	Miss Bentkowski; Miss Burcombe; Miss Stones; Mrs. Main; Miss Shapiro.
<i>West Hill High</i>	Mr. McFarlane; Miss Gilmour; Miss Helleur.
<i>Westminster</i>	Mrs. Gibbs; Mrs. Campbell; Mrs. Taylor; Mrs. Findlay; Mrs. Roper.
<i>Westmount</i>	
<i>Junior High</i>	Miss Thompson; Miss Mathews.
<i>Willingdon</i>	Miss Whitehouse; Mrs. Slee; Mrs. Benson; Miss Colley; Mrs. Rotman; Miss Harris; Miss McKyes;

ASSISTING TEACHERS

<i>Woodland</i>	Miss Ramus; Miss Reaper; Miss McKindsey; Mrs. Emo; Mrs. Cunningham; Miss Hall; Miss Roy.
<i>Westmount, King's, Queen's, Roslyn</i>	Miss Clarke; Miss Eyre; Miss Buffham; Mrs. Miller; Miss Stathatos; Miss Harvey. Music Specialist, Miss Jamieson.

LAKESHORE SCHOOLS

<i>Beaconsfield Elementary</i>	Mrs. Burnell; Mrs. Davis; Mrs. Montgomery.
<i>Beaconsfield High</i>	Mr. Buck; Mr. Scott; Miss Stairs; Mr. Taylor.
<i>Beaurepaire</i>	Mrs. Archambault; Mrs. Morkill.
<i>Briarwood</i>	Mr. Akin; Mrs. Swaine; Mrs. Wilkie; Miss Hogge.
<i>Cedar Park</i>	Mrs. Mathewson; Mrs. Osler; Mrs. Berridge; Mrs. Pearson; Mrs. Fisher; Miss Moore; Mrs. Hay; Miss Mann; Miss Cochrane; Mrs. Stockwell; Miss Bishop; Miss McGlashan; Mr. McGlashan; Mr. Killingbeck; Miss Reid; Miss Shand.
<i>Dorset</i>	Miss Newman; Mrs. Edward; Mrs. Guimond; Miss Howard; Mr. Morgan; Mr. Bennett.
<i>Lakeside Heights</i>	Mrs. Craig; Mrs. Rose; Mrs. Mason; Mrs. Herring; Miss Atwood; Miss Williston; Mr. Tetreault; Miss Ross; Mrs. Rumscheidt; Mr. Howell.
<i>Northview</i>	Miss Cameron; Miss Laurin; Miss Goldberg; Mr. Aiken; Mr. Page; Miss Nicoll; Mrs. Hanson; Mr. Sirkis; Mr. Lesar; Miss Weitz; Mr. Swaine; Mr. Start.
<i>Oak Ridge</i>	Mrs. Gladwell; Miss Reid.
<i>Valois Park</i>	Mrs. Petrie; Mrs. Belson; Miss Yorke; Mr. Boone; Mr. Nelson; Miss Bennett; Mrs. Hinchcliffe; Miss Owen; Mr. Bonnell; Mr. Newsham; Mrs. Wilson; Miss Williston; Miss Lenfesty; Mrs. Theroux.
<i>Vivian Graham</i>	Miss Hunt; Mr. Crowell; Miss Kemper; Mrs. Hayward; Mr. Steeves; Mr. Ungerson.

CHAMBLY COUNTY SCHOOLS

<i>Margaret Pendlebury</i>	Mrs. Harris; Mrs. Knott; Mrs. Sandell.
<i>Royal George</i>	Miss Hoyle; Mr. Dorgan; Mr. Caines; Mrs. Donald- son; Miss MacWha; Miss MacIntyre; Mrs. Monk; Mrs. Harding; Mrs. Wheatley.

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<i>St. Lambert Elementary</i>	Mrs. Kennedy; Mrs. Savage; Mrs. Ross; Miss Graham; Mrs. Todd; Mrs. Gourlay; Mrs. Hills; Mrs. Green; Mrs. Edmond; Miss Neate; Mrs. Malkin; Mr. Seaman; Mrs. Langshur; Mrs. White.
<i>Victoria Park</i>	Miss Winter; Mrs. Osborne; Mrs. Merrill; Mrs. Raham.

QUEBEC CITY AND DISTRICT SCHOOLS

<i>Alexander Wolfe (Valcartier)</i>	Miss Grey; Mrs. Smith; Miss Eastwood; Miss Moncrieff; Mrs. Lavallee; Miss Keighley; Mr. McBurney; Mr. Warner.
<i>Bishop Mountain</i>	Miss Muir; Mrs. Crowe; Mrs. Gorie; Miss Champion; Mrs. Lennon; Mrs. Owen; Mrs. Langelier.
<i>Quebec High St. Foy</i>	Mr. Brander; Mrs. Barras; Mrs. Stephens. Miss Algie; Miss Coull; Mrs. Fontaine; Miss Bisson; Mrs. Foster; Mrs. Crawford; Mrs. Hardie; Mrs. Rockwell; Miss Montgomery; Miss Taillon; Mr. Gourley.
<i>St. George's</i>	Mrs. Lower; Mrs. Brown; Miss Christensen; Miss McIver; Mrs. Graham; Miss Devine; Mrs. Goodfellow; Miss Williston; Miss F. MacKinnon; Miss L. MacKinnon; Mrs. Hatch; Mrs. Young; Mr. Ward; Mr. Heasley.

OTHER SCHOOLS

<i>Brownsburg High School</i>	Mrs. Connolly; Mrs. Kennedy; Mrs. Burk; Mrs. Poole; Mrs. Dixon; Miss Benson; Mrs. Pasco; Mrs. Lessard; Miss Paesler.
<i>Cowansville Consolidated High School</i>	Miss Spicer; Mrs. Le Chasseur; Mrs. Doherty; Miss Barker; Miss Wells; Miss Fulford; Mrs. Luce; Mrs. Bell; Mrs. Hawke; Miss Parsons; Mrs. Blinn; Mr. Bradford; Mrs. McCutcheon; Miss Righton.
<i>Granby High School</i>	Mrs. Coupland; Mrs. Brouillet; Mrs. Laurie; Miss Maynes; Miss Dunn; Miss Mogensen; Miss Brown; Miss Scott; Mrs. Foggo; Miss Boyes; Mrs. Vivian; Mrs. Hamilton.
<i>Knowlton Composite High School</i>	Mrs. Morrison; Mrs. Duboyce; Mrs. Wilson; Mrs. Jackson; Miss McKee; Miss Bozer; Mr. McKelvey; Mrs. Hadlock; Mr. Pille; Mr. Stonefield; Mr. Wild; Mrs. Rogers.
<i>Lachute High School</i>	Miss Kenny; Miss McMahon; Mrs. Dixon; Miss Frank; Mrs. Robinson; Mrs. Graham; Miss Cowan;

ASSISTING TEACHERS

Mrs. Fraser; Mrs. Walker; Miss MacKenzie; Mrs. McDowell; Miss Clark; Mrs. Payne; Miss Soule; Mrs. Campbell; Mr. Fitch; Mrs. Rogers.

Valleyfield
(Gault Institute)

Miss McDowell; Miss Allen; Miss Buttress; Mrs. Pert; Miss Dickson; Miss Martin; Miss Elliott; Miss Mimnaugh.

Waterloo High School

Mrs. Hackwell; Miss Mogensen; Mrs. Pope; Miss Hillhouse; Mrs. Stretch; Miss Bowker; Mrs. Jones; Miss Smith; Mrs. Watts; Mr. Chapman; Mrs. McKergow; Mr. MacAskill.

MACDONALD COLLEGE

GENERAL INFORMATION

Macdonald College, Ste. Anne de Bellevue, Que., is located twenty miles west of Montreal, near the main lines of the Canadian National Railway and the Canadian Pacific Railway and provincial highways No. 2 and No. 17. The Anglican Church of Canada, the United Church of Canada and the Roman Catholic Church in Canada are represented in the town. A branch of the Bank of Montreal serves the community.

The College has its own post office to which mail should be addressed simply "Macdonald College, Que." The address for freight and express parcels, and for telegrams, is "Macdonald College, Ste. Anne de Bellevue, Que."

Key telephone numbers are as follows: Switchboard (connecting all departments), GLendale 3-5335. Brittain Hall, GLendale 3-9082, 9086; Stewart Hall, GLendale 3-9008, 9040, 9095; Laird Hall, GLendale 3-9003, 9020; Harrison House, GLendale 3-4407.

FACILITIES

Sir William Macdonald planned so well for future needs that the facilities of Macdonald College for instruction in Agriculture, Home Economics and Teaching are still provided almost entirely in the buildings constructed in 1905. The picturesque brick buildings and red-tile roofs of the Chemistry, Biology, Agriculture and Main Buildings, together with Stewart and Laird Halls (residences for women) and Brittain Hall (residence for men), and the well laid out grounds on the shore of Lake St. Louis, comprise a campus which is attractive and functional.

Laboratory and lecture rooms are exceptionally well supplied with modern and efficient teaching facilities, while the reference section of the Library and the research laboratories associated with the various science departments are equipped to permit the vigorous investigation of problems arising in postgraduate studies.

The land associated with the College consists of approximately 1,600 acres. The campus proper, which lies south of the Metropolitan Boulevard, consists of about 200 acres.

The Morgan Arboretum, established in 1947, has 700 acres of woodland devoted to the study of woodlot management and the place of the woodlot in the Eastern Canadian farm economy. About 100 acres have been planted in reforestation projects. In addition, the Arboretum, in spite

of its short history, has Canada's best collection of examples of all Canadian and many foreign species of trees and shrubs of interest from the point of view of pulpwood, timber and landscaping.

THE MACDONALD COLLEGE LIBRARY

The library and reading room are centrally located in the Main Building, occupying the ground floor of an annex leading off the main hall.

The present stack-room has accommodation for about 25,000 volumes, and the choice of books has been directed towards bringing together the best of modern literature on subjects of the curriculum of the College.

The Walter M. Stewart Collection, purchased through the generosity of Mr. Walter M. Stewart, includes biography, history, travel, science, etc.

EXTRA-CURRICULAR ACTIVITIES

The program of extra-curricular activities is designed to complement the program of studies and to promote both fellowship and wider experiences for the student-teacher. Among the activities sponsored by the Macdonald College Students Council is a wide program of athletics for men and women, supervised by qualified instructors and offering facilities for track and field sports, football, hockey, basketball, volleyball, tennis, badminton, archery, aquatic sports, year-round ice skating on Glenfinnan Rink. The Council also sponsors a weekly newspaper and an annual display, the "Macdonald Royal," which is climaxed by the perennially popular student musical revue, "The Green and Gold." The Literary and Debating Society conducts dramatic and debating programs. Dances and informal get-togethers are features of student life, with the campus coffee shop a well-known meeting place.

In addition, Macdonald College offers three or four community concerts each year, with distinguished artists; students may attend at special subscription rates. On Founder's Day, which is celebrated each year on February 10, a special dinner and a musical program are provided through the generosity of Mr. and Mrs. Walter M. Stewart. The War Memorial Assembly is another annual event, held to commemorate the sacrifices of Macdonald men and women in two world wars. Past speakers have included Lord Alexander, The Right Honourable Vincent Massey, The Right Honourable Louis St. Laurent, Mr. Ralph Bunche and Mrs. Eleanor Roosevelt.

RESIDENCE

Men students in residence live in Brittain Hall, named in honour of Dr. W. H. Brittain, Vice-Principal of Macdonald College from 1935 to 1955. One residence for women is named Stewart Hall in honour of

Mr. and Mrs. Walter M. Stewart, long-time friends and benefactors of the College. The other is called Laird Hall in honour of the late Sinclair Laird, Dean of the School for Teachers from 1913 to 1949.

Any student wishing to live in one of the College residences must apply for residence accommodation before June 30, 1960. Forms of application for residence accommodation are sent with the regular forms of application for admission to the course.

Macdonald College does not have residence accommodation for all the students who enroll. Acceptance of the application for admission to a course of study does not imply that residence accommodation will be available. In the event that there is a shortage of residence accommodation, rooms will be assigned first to students whose homes are off the island of Montreal. Preference will be given also to women students enrolled in degree courses rather than diploma courses.

A deposit of \$25.00 must accompany the application for accommodation. If the application is accepted the deposit will be deducted from the payment due on entrance. The College guarantees to refund the deposit if the application is refused, or if it is cancelled by the applicant at least three weeks prior to the date of registration for the course concerned.

All students who have been in residence during the session must apply for re-admission for the following year and make a deposit of \$25.00, before leaving at the end of the session, should they wish to have space reserved for them. This deposit will be refunded if the application is not accepted, or if it is cancelled by the applicant three weeks prior to the date of registration for the course in which he is enrolled. If the application is accepted, the deposit will be deducted from the payment due on entrance.

A number of rooms is available in private homes in Ste. Anne de Bellevue; a list of these may be obtained from the Registrar's Office. Most are located within a few minutes' walk of the College. Students rooming out may have all their meals in the College dining room and participate fully in all regular College activities.

All students, whether living in residence or not, are registered in one or other of the Halls of Residence, as well as in their respective Faculties or Schools.

Students of the Institute of Education who live in Montreal may apply for permission to commute daily between Montreal and the College.

Due to the necessity of accommodating conventions and short courses during the summer months, resulting in a limited time available for repairs and cleaning, no student will be admitted to residence before the date set for registration in the course for which he has been accepted;

nor may a student remain in residence after the session ends, nor during the Christmas holidays. Exceptions to this rule will be made in the case of certain student officers whose duties require their presence before the opening date, members of the football team who have been accepted for pre-season training, students preparing for supplemental examinations, and other students under exceptional circumstances by permission of the Warden.

Students who have reserved accommodation and who are returning early to write or prepare for supplemental examinations may enter residence, by special permission, not earlier than one week before the date of their first examination. Application for early accommodation must be sent with the application for supplemental examination before September 1st. The charge for room and board for this period will be \$16.50 for a week or any part of a week.

Students may not invite relatives or friends to stay overnight in the residence without permission from the Warden of Residence.

For the admission of visitors to the Dining Room students must purchase tickets at the Dietitian's Office, Stewart Hall, at the Administration Office in the Main Building, or from the doorman on duty.

Students are held responsible for the care of their rooms and of their furnishings.

Students are recommended to mark clearly, before coming to the College, all articles of wearing apparel, sheets, pillow cases, etc.

Detailed regulations are printed separately and issued to students after arrival.

ROOM FURNISHINGS

Bedrooms are furnished with closets, beds, mattresses, blankets, pillows, and the necessary furniture.

Each student is expected to provide his or her own laundry bag, toilet soap, drinking glass; four sheets, about 90 inches long, 60 inches wide; two pillow covers, 34 inches long, 20 inches wide; hand towels and bath towels; flashlight.

Each room is provided with picture moulding. Students are permitted to bring rugs, pictures, etc., but are not allowed to drive tacks or nails into walls or woodwork or to paste pictures on the walls.

Women students are required to provide sash curtains and curtain rods for the windows in their rooms.

CONDUCT AND ATTENDANCE

The general responsibility for the maintenance of discipline in each residence is vested in a Warden; but, through a system of self-government, students are encouraged to accept the greatest possible amount of responsibility for their own affairs. Enforcement of necessary regulations, exaction of disciplinary measures, and regulation of conduct *in and out of residence* is largely in the hands of a House Committee for each residence, elected by the students from among their own number.

Matters of discipline connected with or arising from the general arrangement for teaching within a Faculty or School come under the jurisdiction of the Dean of the Faculty or the Director of the School concerned.

Students may be admonished by a professor or instructor for improper conduct and may be reported to the Dean or Director concerned. If he considers it advisable, such conduct shall be reported to parents or guardians.

Students found guilty of immoral, dishonest, or other improper conduct, the violation of rules, or of wilfully causing damage to persons or property, shall be liable to College discipline, which includes the powers of expulsion (subject to the approval of the Senate of McGill University); of suspension from classes or residence (also, in the case of women students, limitation of leaves); of exclusion from all College functions, including class or society meetings, plays, dances, etc.; of disqualification from competing for honours or prizes; and of levying fines. Fines may also be imposed or assessments made for damages caused by individuals or groups of students.

Bringing liquor into the College is considered a serious breach of discipline. Students who indulge in the use of liquor, or who frequent places where it is sold, may be required to withdraw from the College.

Gambling is not permitted on College property.

Students are not permitted to bring firearms into their rooms or to use them on the College grounds.

The Ottawa River on which the College is situated is considered unsafe for bathing and students who go swimming or boating do so at their own risk.

Hitchhiking is not permitted.

Unauthorized entrance to Stewart Hall or Laird Hall by men students, or to Brittain Hall by women students, will result in immediate suspension of the guilty persons, followed by expulsion proceedings.

Students are requested not to make application for additional leave either before or after holiday periods, unless in case of illness or other exceptional circumstances.

For late registration or for absence from classes on the last day before or the first day following a holiday period, there is a penalty of \$3.00 for each day or part of a day.

During illness students are under the direction of the Medical Officer and may not leave the residence or infirmary without his permission.

Punctual attendance at all classes, laboratory periods, tests, etc., is expected of all students. Absences can be excused only on the grounds of necessity or illness, of which proof may be required. Special attention is called to the fact that the completion of all laboratory work is obligatory and that the opportunity to make up work missed can be provided only in the case of properly excused absences.

The College has the power to refuse examinations to those students who persist in absenting themselves from classes without permission.

Any student who is unwilling to submit cheerfully to the restrictions of college life, whose conduct does not furnish satisfactory evidence of diligence and earnestness of purpose, or whose work is definitely unsatisfactory, may be placed on probation, or may be required to withdraw from the college.

Degrees of probation are as follows:

Probation 1 The student is permitted to remain on trial, subject to satisfactory work and conduct.

Probation 2 The student is not allowed to participate in competitive events, or to take part in plays or other activities involving undue loss of time.

LEAVE OF ABSENCE

WOMEN STUDENTS

In order to avail themselves of leave privileges, women students in residence must present, at the beginning of the session, a form signed by parent or guardian giving general permission or specifying the manner in which leave may be spent. Forms for this purpose, and details of leave allowances, are sent to all students.

The amount of leave permitted is based on the student's year. A student is entitled to the leaves accorded those in her year only while in

INSTITUTE OF EDUCATION

good academic standing. Conditioned students in the Second, Third or Fourth year have the allowances granted to the year below.

Except in cases of emergency, telephone messages or telegrams requesting leave of absence for women students will receive no consideration.

Students wishing to stay at hotels, lodges, etc., while on leave, or to go on skiing trips, are required to have the written consent of their parents to do so.

On no account shall a student be absent from college without having complied with the regulations regarding registration of leaves, or without the knowledge and consent of the Warden. Absence from College without permission is a serious offence which renders the student liable to instant suspension or dismissal. If prevented from returning after an absence, due to illness or other cause, students must advise the Warden's representative immediately. These students must report to the Warden's office immediately upon their return.

Students are urged to have dental work attended to before entrance, though dental appointments will be allowed in cases of urgency. Appointments to visit a physician are allowed on production of a letter from the physician indicating the date and hour of the appointment.

All correspondence regarding the conduct of women students in residence should be addressed to The Warden, Stewart Hall, Macdonald College, P.Q.

MEN STUDENTS

All students who expect to be absent from the College must leave some record of their movements.

VISITORS

Women students in residence may receive visitors any day from 4.00 to 6.00 p.m. and from 7.00 to 10.00 p.m. Visitors may be shown over the Residences only on Saturdays, except in the case of parents or friends from a distance. Guests may be entertained in the Reception Rooms and the Common Room; only women visitors may be shown students' bedrooms.

Women visitors to Brittain Hall may be entertained in the Reception Rooms only.

MISCELLANEOUS EXPENSES

LAUNDRY SERVICE

Weekly laundry service at moderate prices is provided by a Montreal laundry to which students may send their personal washing, sheets, pillow covers, and towels. Printed lists will be furnished, two copies of which, properly filled out, must accompany each parcel. Fully equipped laundry rooms are also provided in each residence for students' use.

HEALTH SERVICE

The College Health Service provides compulsory medical examinations for all men and women students at the beginning of each session. The examination for students entering for the first time includes a complete clinical check, together with an X-ray of chest and routine laboratory procedures.

All examinations are by appointment after registration. Any student who fails to keep this appointment becomes subject to later examination for which a charge of \$2.00 is made. Any student who fails to have a medical examination by the Health Service becomes subject to disciplinary action by the University authorities.

Medical and nursing attendance, major operations and illness excepted, will be provided to all students while in attendance at the College.

If a student's admission to a city hospital is ordered by the College Medical Officer, one half of all public ward charges is paid by the College, provided that the total obligation assumed by the College does not exceed \$125.00 in any one session for any one student. Should a student desire private accommodation, the difference in cost must be borne by him.

This contribution towards hospital expenses is made only when the illness or other condition requiring hospital treatment was not present or was unknown or undetected at the time of admission.

During the session all students are covered by a group accident insurance policy, the premium for which is included in the student activity fee.

BOOKS

The prescribed textbooks, and classroom and laboratory supplies, may be purchased at the College Book Shop.

McGILL UNIVERSITY

Information regarding admission, residence, health service, etc., will be found in the bulletin of *General Information* which is enclosed with this Announcement.

INSTITUTE OF EDUCATION

REGULATIONS GOVERNING CLASS I, CLASS II AND CLASS III DIPLOMAS

Class I and Class II Certificates may be exchanged for permanent diplomas after two years of successful teaching as certified by an Inspector.

Class III Certificates, including those in special subjects, remain interim until the holder has taught successfully for two years and has also successfully completed one session at Macdonald College Summer School within three years after receiving an interim certificate. At summer school he must take at least two professional courses *and* either two other professional courses or one academic course of first year college or university level. When he has met these requirements, he may exchange his interim certificate for a permanent diploma. The professional summer school courses may not be taken before the completion of one year of teaching except with the permission of the Director of Protestant Education, but academic courses may be taken immediately following graduation in June.

Class II Diplomas may be granted to teachers holding Class III Diplomas provided they have passed in ten papers of the Grade XI examination *and* have obtained either (a) the Senior High School Leaving Certificate with passes in five subjects *or* (b) certificates showing that they have passed courses in English of the first and second year college or university level and three other first year subjects, at least one of which must be Mathematics, French, Latin or a Science.

SCHOLARSHIPS, BURSARIES, LOAN FUNDS

A list of scholarships, bursaries and student loan funds may be obtained on application to the Director, Institute of Education, Macdonald College, Quebec.

PUBLICATIONS

The following publications are issued by the Institute:

- Calendar of the Institute
- Master of Arts (Education) Program
- First Class (Graduate) Diploma Program
- Scholarships, Bursaries and Loans
- Summer School Announcement
- Monthly Bulletin

Military Training

CANADIAN OFFICERS TRAINING CORPS

MCGILL UNIVERSITY CONTINGENT

GEN. THE HON. A. G. L. McNAUGHTON, C.H., C.B., C.M.G., D.S.O., C.D.

Honorary Colonel

LT.-COL. J. M. MORRIS, M.C., V.D.

Honorary Lieutenant Colonel

LT.-COL. J. B. BIRD

Commanding Officer

CAPTAIN N. LAWSON *Officer Commanding Macdonald College Detachment*

CAPTAIN H. R. PHILLIPS, C.D.

University Support Officer

1. GENERAL

The McGill University Contingent C.O.T.C., is the oldest university unit for the training of army officers in North America, having been officially established on 1st November 1912. Its offices and mess are located in the Sir Arthur Currie Memorial Gymnasium-Armoury.

The purpose of the training it offers is to qualify a selected number of undergraduates for a commission in one of the corps of the Canadian Army (Regular or Militia). Applicants may choose the corps in which they wish to be commissioned, within limits set by the educational requirements of certain corps and by the number of vacancies available in each corps.

2. ELIGIBILITY

Any male student may apply provided that:

(a) He is a Canadian citizen by birth or naturalization, or a British subject resident in Canada possessing the certificate of a landed immigrant. A student visa is not acceptable.

(b) He is at least 17 years of age, and able to complete 2 years of training before reaching the age limit of the corps for which he is applying.

(c) He meets the physical requirements of the corps for which he is applying.

(d) He is registered as a Regular Undergraduate.

(e) He is able to complete two summers' training at an army training centre before graduation from the University unless he is certain that he is going to take graduate work.

MILITARY TRAINING

All applicants will be required to state in their written application that they are willing to complete the minimum programme of training, if accepted.

3. TRAINING

The training consists of:

(A) WINTER (THEORETICAL) TRAINING

A minimum of two Theoretical Phases of training must be completed; a third Theoretical Phase is optional. This third Theoretical Phase is prerequisite to the third Practical Phase. The training consists of lecture-courses given on one night a week during the winter, as follows:

FIRST THEORETICAL PHASE (First Winter)

- Introduction to the Army
- Military Law
- Leadership

SECOND THEORETICAL PHASE (Second Winter)

- Tactics and National Survival Studies
- Staff Duties
- Organization and Administration of the Army in Canada
- Leadership

THIRD THEORETICAL PHASE (Third Winter)

- Military History
- Tactics and National Survival Studies
- Organization and Administration of the Army in Canada
- Leadership

(B) SUMMER (PRACTICAL) TRAINING

A minimum of two Practical Phases of training must be completed; a third Practical Phase is optional, but highly recommended. Each phase consists of up to 22 weeks' training during the summer at the training centre of the corps in which the applicant is enrolled. These centres are located throughout Canada from Valcartier, Quebec, to Victoria, B.C.

In addition, selected student officers in their Third Practical Phase proceed annually to train with the Canadian Army Brigade in Germany.

4. STATUS AND PAY

Applicants who are accepted are given the rank of Officer Cadet and the status of Second Lieutenant. The rate of pay for Officer Cadets during the Practical Phases of training in the summer is \$210.00 a month. In addition, board, quarters, medical care, and transportation to and from the training centre are provided free.

Officer Cadets receive \$3.50 for each parade night attended during the winter up to a maximum of \$112.00 (16 days' pay).

5. QUALIFICATION AND COMMISSIONING

Officer Cadets who complete the First and Second Practical and Theoretical Phases of training are qualified for the rank of Second Lieutenant in the Militia. The completion of the Third Practical and Theoretical Phases as well qualifies an Officer Cadet as Lieutenant in the Militia or in the Regular Army upon graduation from a degree course.

When the necessary military training requirements have been completed, Officer Cadets may apply for commissions in the Regular Army or in the Militia. If they do not choose either of these alternatives, they will be posted in commissioned rank to the Supplementary Reserve.

6. NON-MILITARY ACTIVITIES

The facilities of the Contingent Mess situated in the Sir Arthur Currie Memorial Gymnasium-Armoury are available to all members of the Contingent. Various social functions are held throughout the academic year to which Contingent members and their guests are welcome.

7. INFORMATION, APPLICATION AND SELECTION

Requests for further information and applications to join the Contingent should be made at McGill to Captain H. R. Phillips, C.O.T.C. Office, Sir Arthur Currie Memorial Gymnasium-Armoury, 475 Pine Avenue West, and at Macdonald College to Captain N. Lawson, Faculty of Graduate Studies.

Applicants who satisfy the requirements listed in Section 2 will be asked to appear before the University C.O.T.C. Selection Board.

Information can also be supplied by the Commanding Officer of the Contingent or the University Support Officer about the programme under which university students may have their education costs and living expenses subsidized by the Department of National Defence, under the Regular Officer Training Plan (R.O.T.P.).

MCGILL UNIVERSITY NAVAL TRAINING DIVISION

Commanding Officer

COMMANDER (S) W. D. MONCUR, C.D., R.C.N. (R.)

University Naval Training Divisions have been established to select and train suitable male undergraduates attending Canadian Universities and Colleges for Commissioned Rank in the Royal Canadian Navy. The program enables the Canadian Navy to build up a Reserve of trained

MILITARY TRAINING

Commissioned Officers of high calibre. Applicants must be 17 years of age, medically fit, and have a sound academic record. At present, the U.N.T.D. administers locally the Regular Officer Training Plan, by which selected candidates are subsidized at University at Public Expense (further details of R.O.T.P. on application).

Students entering the U.N.T.D. remain on a probationary basis until January of the First Winter, at which time a final selection is made. Normally, recruiting is limited to First and Second year students, and ends before November.

REQUIREMENTS FOR COMMISSION

Cadets who successfully complete the U.N.T.D. Course of three Winters and two Summers (minimum) receive an Acting Commission in the Royal Canadian Navy (Reserve). When a University degree is attained, the candidate is confirmed in the rank of Sub-Lieutenant.

Winter training consists of instruction in HMCS "Donnacona" one evening per week. Summer Training requires 14 weeks at either "Halifax" or "Esquimalt," ashore and at sea in one of Her Majesty's Canadian Ships.

Cadets rate of pay is \$210.00 per month while in Active Training. During Winter Training, one drill night is considered the equivalent of one half-day's pay at the rate of \$210.00 per month. Uniforms, rations, quarters, transportation, medical care are also provided.

NATURE OF TRAINING

Instruction is both theoretical and practical in nature. All cadets are trained as General List Officers for two Winters and two Summers. More specialized training is given in the third Summer which may be allied as closely as possible to the Cadets' University studies.

Shore-side training is augmented in the fullest extent possible by sea experience. In recent Summers, U.N.T.D. Cadets have visited such places as Gibraltar, Ireland, Great Britain, Southern France, Scandinavia, Alaska, California, Hawaii, Pearl Harbour and the Fiji Islands.

In addition, emphasis is placed on sports of all descriptions, with special stress on sailing.

For further information, apply to:

Commanding Officer, U.N.T.D.,
H.M.C.S. "Donnacona,"
1475 Drummond Street,
Montreal, P.Q.
VI. 2-9022, local 23.

R.C.A.F. MCGILL UNIVERSITY RESERVE SQUADRON

WING COMMANDER C. D. SOLIN

Commanding Officer

1. OBJECT

The RCAF has established the McGill University Reserve Squadron on the campus in order to provide an annual flow of university trained Officers into the Regular and Reserve components of the RCAF.

2. ELIGIBILITY—University Reserve Training Plan (URTP)

To apply for enrolment a student must be:

Between the ages of 16 and 26. (Female applicants must reach 18 before first summer training period.)

Able to complete three summers of RCAF training prior to graduation if applying for the Technical List.

Able to complete at least two summers of RCAF training prior to graduation if applying for the other training lists.

Medically fit to RCAF standards.

A Canadian citizen, or British subject with landed immigrant status.

3. TRAINING BRANCHES

Each fall, enrolments are made for training in the following branches:

TECHNICAL—Aeronautical Engineering, Armament, Construction Engineering, Telecommunications, Mobile Equipment Engineer.

OTHER —Accounts, Administration, Chaplain, Fighter Controller, Flying Control, Ground Observer, Medical, Food Services, Special Service (Recreation), Supply, Public Information.

4. TRAINING

- (a) **WINTER TRAINING**—This program, which takes place at the university, normally consists of a weekly two hour parade. Parades commence in October and terminate in March and are phased so that they do not interfere with academic studies and examinations. This training is designed to familiarize URTP personnel with the duties and responsibilities of junior officers and to give a general knowledge of the RCAF, and its role in defence.

MILITARY TRAINING

- (b) SUMMER TRAINING—All successful candidates for the URTP attend Officers' School in the first half of the first summer. Those who are enrolled in a branch for which a course is conducted then proceed on formal training while the remainder receive supervised employment at stations across Canada. Each year a number of Flight Cadets may be selected to take their third summer at an overseas unit.

5. STATUS

Accepted students are enrolled with the training rank of Flight Cadet.

On successful completion of training, Flight Cadets will be commissioned as Pilot Officers. Upon graduation, Pilot Officers are eligible to transfer to the RCAF Regular, the Auxiliary, the Primary Reserve, or the Supplementary Reserve with the rank of Flying Officer.

6. PAY

DURING SUMMER TRAINING

\$210 per month.

Rations, quarters, transportation, uniforms and medical attention are provided free.

DURING THE WINTER TRAINING PERIOD

Up to 16 days pay per winter, plus pay for any approved special duty.

7. APPLICATION FOR ENROLMENT

Phone VI. 4-1932 to make an appointment with the RCAF Officer, Room 10, Sir Arthur Currie Memorial Gymnasium.

Academic Dress

Undergraduates are entitled to wear a plain stuff gown, not longer than half way between knee and ankle, with round sleeves cut above elbow.

Bachelor of Arts—Black stuff gown, falling down below knee with full sleeve cut to elbow and terminating in a point (similar to that of the Cambridge B.A.); hood, black silk, lined with pale blue silk and edged with white fur.

Bachelor of Architecture—The same gown as Bachelors of Arts; hood, black silk, lined with white silk and edged with white fur.

Bachelor of Civil Law—The same gown as Bachelors of Arts; hood, black silk, lined with French grey silk and edged with white fur.

Bachelor of Commerce—The same gown as Bachelors of Arts; hood, black silk, lined with purple silk and edged with white fur.

Bachelor of Divinity—The same gown as Bachelors of Arts; hood, black silk, lined with violet silk and edged with white fur.

Bachelor of Education—The same gown as Bachelors of Arts; hood, black silk, lined one half with yellow and one half with pale blue silk and edged with white fur.

Bachelor of Education (Physical Education)—The same gown as Bachelors of Arts; hood, black silk, lined with claret coloured silk and edged with white fur.

Bachelor of Engineering—The same gown as Bachelors of Arts; hood, black silk, lined with scarlet silk and edged with white fur.

Bachelor of Library Science—The same gown as Bachelors of Arts; hood, black silk, lined with orange silk and edged with white fur.

Bachelor of Music—The same gown as Bachelors of Arts; hood, black silk, lined with pale mauve silk and edged with white fur.

Bachelor of Nursing—The same gown as Bachelors of Arts; hood, black silk, lined with dark blue silk and edged with white fur.

Bachelor of Science—The same gown as Bachelors of Arts; hood, black silk, lined with yellow silk and edged with white fur.

Bachelor of Science in Agriculture—The same gown as Bachelors of Arts; hood, black silk, lined with dark green silk and edged with white fur.

Bachelor of Science (Home Economics)—The same gown as Bachelors of Arts; hood, black silk, lined with jade green silk and edged with white fur.

ACADEMIC DRESS

Bachelor of Science in Physical and Occupational Therapy—The same gown as Bachelors of Arts; hood, black silk, lined one half with yellow and one half with dark blue silk and edged with white fur.

Master of Arts—Black gown of stuff or silk, falling below knee, with long sleeves with semi-circular cut at the bottom (similar to that of the Cambridge M.A.); hood, black silk, lined with pale blue silk.

Master of Architecture—The same gown as Masters of Arts; hood, black silk, lined with white silk.

Master of Civil Law—The same gown as Masters of Arts; hood, black silk, lined with French grey silk.

Master of Commerce—The same gown as Masters of Arts; hood, black silk, lined with purple silk.

Master of Engineering—The same gown as Masters of Arts; hood, black silk, lined with scarlet silk.

Master of Laws—The same gown as Masters of Arts; hood, black silk, lined with French grey silk.

Master of Library Science—The same gown as Masters of Arts; hood, black silk lined with orange silk.

Master of Sacred Theology—The same gown as Masters of Arts; hood, black silk lined with violet silk.

Master of Science—The same gown as Masters of Arts; hood, black silk, lined with yellow silk.

Master of Science (Applied)—The same gown as Masters of Arts; hood, black silk, lined one half with pale green silk and one half with yellow silk, divided vertically, the green being on the wearer's right.

Master of Social Work—The same gown as Masters of Arts; hood, black silk, lined with fuchsia silk.

Doctor of Civil Law—The same gown as Masters of Arts; hood, scarlet cloth, lined with French grey silk.

Doctor of Dental Surgery—The same gown as Masters of Arts; hood; scarlet cloth, lined with pink silk.

ACADEMIC DRESS

Doctor of Laws—The same gown as Masters of Arts; hood, scarlet cloth, lined with white silk.

Doctor of Letters—The same gown as Masters of Arts; hood, scarlet cloth, lined with pale blue silk.

Doctor of Medicine and Master of Surgery—The same gown as Masters of Arts; hood, scarlet cloth, lined with dark blue silk.

Doctor of Music—The same gown as Masters of Arts; hood, scarlet cloth, lined with mauve silk.

Doctor of Philosophy—The same gown as Masters of Arts; hood, scarlet cloth, lined with pale green silk.

Doctor of Science—The same gown as Masters of Arts; hood, scarlet cloth, lined with yellow silk.

Doctors of Laws, Doctors of Civil Law, Doctors of Letters, Doctors of Science, Doctors of Philosophy, and Doctors of Music are entitled to wear for full dress a robe of scarlet cloth (similar in pattern to that of the Cambridge LL.D.) faced with silk of the same colour as the lining of their respective hoods.

All hoods are in pattern similar to that of the Masters of Arts of Cambridge University.

Undergraduates and graduates wear the ordinary black trencher with black tassel, but Doctors of Laws, Doctors of Civil Law, Doctors of Letters, Doctors of Science, Doctors of Philosophy, and Doctors of Music wear for full dress a black velvet hat with gold cord, similar to that worn by Doctors of Laws of Cambridge University.

Samples of the colours of the linings of all hoods are kept for inspection in the office of the Registrar.

THE HISTORY OF THE

REIGN OF KING CHARLES THE FIRST

IN THE SEVENTEENTH CENTURY

BY JOHN HANCOCK

IN TWO VOLUMES

LONDON: PRINTED BY J. STURGEON, 1725

IN THE CITY OF LONDON

AT THE SIGN OF THE ROSE

IN THE STREET OF THE ROSE

IN THE CITY OF LONDON

AT THE SIGN OF THE ROSE

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IN THE CITY OF LONDON

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IN THE CITY OF LONDON

AT THE SIGN OF THE ROSE

IN THE STREET OF THE ROSE

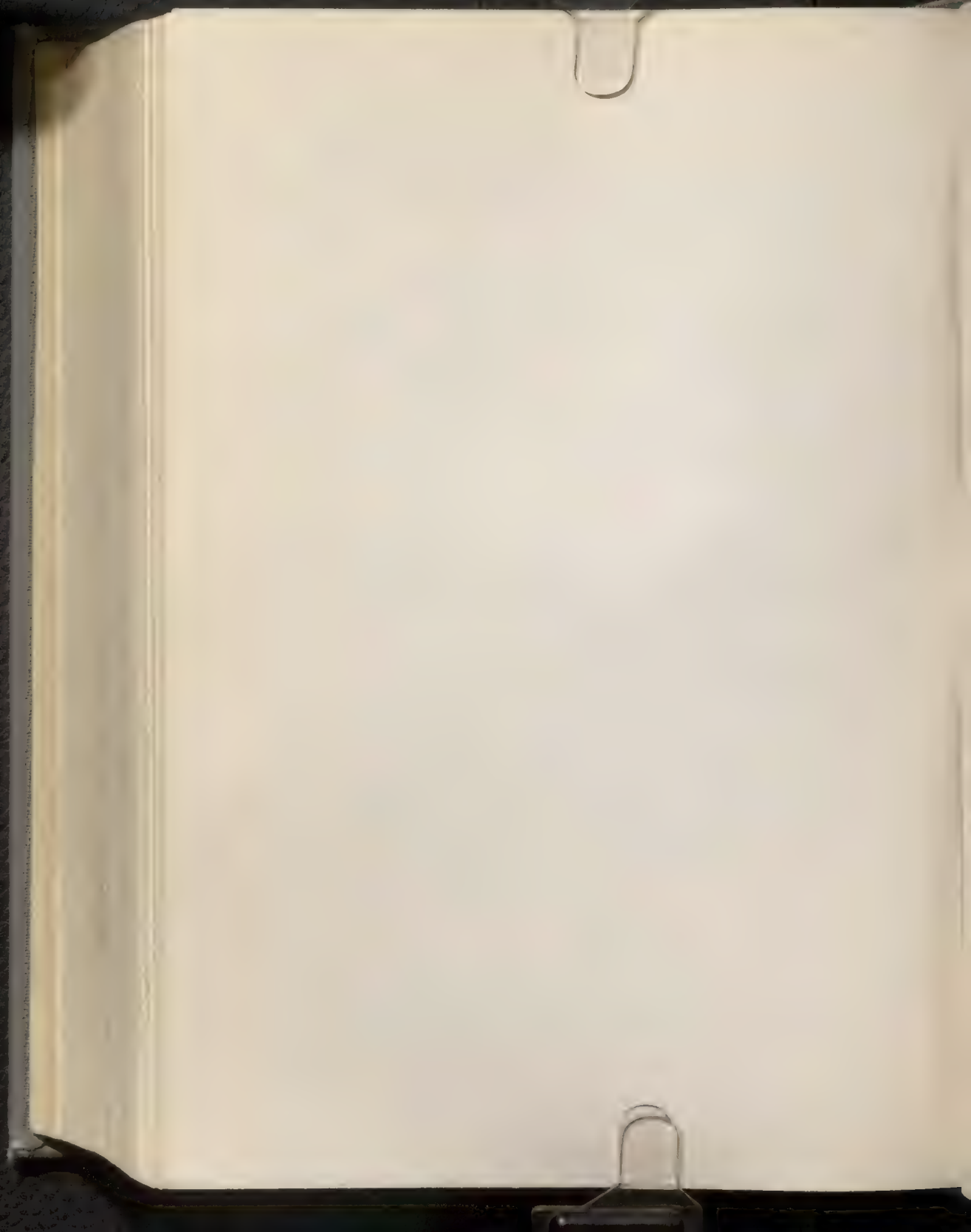
IN THE CITY OF LONDON

AT THE SIGN OF THE ROSE

IN THE STREET OF THE ROSE

IN THE CITY OF LONDON





McGill University

Montreal



**Directory of
Students
1959-1960**

TELEPHONE NUMBERS

5002

TELEPHONE NUMBERS - Continued

		Local
McGill University Naval Training Division, 1475 Drummond Street,		
Staff Officer	VI. 2- 9022	22
Newman House, 3484 Peel Street	VI. 4- 4229	
Placement Service, 3574 University Street	VI. 4-6311	542
Presbyterian College, 3485 McTavish Street	Office	
	Students VI. 4-0424 & VI. 9-0141	
R. C. A. F. Reserve University Squadron, 475 Pine Avenue West	VI. 4-1932	
<u>Residences (University) -</u>		
(Note - There are several students' telephones in most University residences. These telephones are not connected with the University switchboard. The number given below is in each case that of the main hall telephone or porter. If you do not know the correct number through which to reach a student directly, call the listed number for information.)		
Douglas Hall of Residence (Men Students), 3851 University St.	VI. 4-0977	
McLennan Hall (Women Students), 3480 Ontario Avenue ...	VI. 2-0044 & VI. 9-0580	
Royal Victoria College (Women Students), 555 Sherbrooke St. W.	VI. 4-0675	
R. V. C. Annex (Women Students), 1009 Sherbrooke St. W.	VI. 4-0426	
Wilson Hall (Men Students), 3506 University St.	VI. 4-0624	
<u>Royal Victoria College, 555 Sherbrooke St. West -</u>		
Warden	VI. 4-6311	234
Warden's Secretary	VI. 4-6311	325
Porter (9 a.m. to 5 p.m.)	VI. 4-6311	236
Students: See note under "Residences, University", above.		
Student Christian Movement, 3625 Oxenden Avenue	VI. 2-1156	
<u>Student Health Service, 515-517 Pine Avenue West -</u>		
Men (24 hour service)	VI. 5-9682	
Women - Day (9 a.m. to 5 p.m.) All students call:		
R. V. C. Infirmary	VI. 4-6311	420
Night (5 p.m. to 9 a.m.) -		
Women Students not in residence call: Dr. M. D. Mellor. HU. 1-5560		
Student House (I. V. C. F.) 3445 Peel Street	VI. 5-9462	
<u>Students' Executive Council, 690 Sherbrooke Street West</u>		
President: Bryce Weir	AV. 8-2244	
Secretary-Treasurer: Wilfred T. Hastings	AV. 8-2247	
Tickets for Football and Hockey, Sir Arthur Currie Gymnasium	VI. 4-6311	363
United Theological College, 3508 University Street - Students	VI. 4-0752	
	VI. 5-4873	
" " " Office	VI. 9-2042	
Women's Union of McGill University, 555 Sherbrooke Street, W.	VI. 4-6311	423
President: Eleanor Webster		

MEN'S FRATERNITIES

Alpha Delta Phi, 3478 McTavish Street-----	VI. 2-7412
Alpha Kappa Kappa, 3466 McTavish Street -----	AV. 8-9533
Delta Kappa Epsilon, 3653 University Street-----	VI. 2-2073
Delta Sigma Phi, 3592 University Street -----	VI. 2-2435
Delta Upsilon, 3434 McTavish Street -----	VI. 2-4492
Kappa Alpha, 3605 University Street -----	AV. 8-0643
Kappa Rho Tau, 3511 Peel Street -----	VI. 4-4777
Lambda Chi Alpha, 485 Sherbrooke Street, West -----	VI. 5-0734
Nu Sigma Nu, 545 Pine Avenue West -----	VI. 5-5841
Phi Delta Theta, 3581 University Street -----	VI. 9-1368
Phi Epsilon Pi, 3420 Peel Street -----	VI. 2-0343
Phi Gamma Delta, 481 Prince Arthur Street, West -----	AV. 8-7773
Phi Kappa Pi, 3647 University Street -----	VI. 9-2806
Psi Upsilon 3429 Peel Street -----	
Sigma Alpha Mu, 1005 Sherbrooke Street, West -----	VI. 9-2592
Sigma Chi, 3482 McTavish Street -----	VI. 9-5985
Tau Epsilon Phi, 3641 Oxenden Avenue -----	AV. 8-0566
Theta Delta Chi, 3633 Oxenden Avenue -----	AV. 8-6896
Zeta Beta Tau, 3483 Peel Street -----	VI. 2-0882
Zeta Psi, 3637 University Street -----	VI. 9-1736

WOMEN'S FRATERNITIES

Alpha Gamma Delta, 3495 Peel Street -----	VI. 4-7861
Alpha Omicron Pi, 3570 University Street -----	AV. 8-8318
Delta Gamma, 985 Sherbrooke St. West -----	AV. 8-9618
Delta Phi Epsilon, 754 Sherbrooke Street West -----	VI. 4-4905
Gamma Phi Beta, 3472 McTavish Street -----	VI. 4-7096
Kappa Alpha Theta, 659 Prince Arthur St. West -----	AV. 8-5880
Kappa Kappa Gamma, 3503 University Street -----	VI. 5-7911
Sigma Delta Tau, 754 Sherbrooke Street West -----	VI. 5-9958

DIRECTORY OF STUDENTS

Where two addresses are given, the second is the home address.

NAME ADDRESS	COURSE & YEAR TEL. NO.	NAME ADDRESS	COURSE & YEAR TEL. NO.
A			
AARONS DENNIS BRIAN 11772 GUERTIN ST CARTIERVILLE QUE	B SC 1 PE 4 3320	ABRAMSON MARILYN B STEWART HALL 1490 GOMIN RD SILLERY QUE	2 TCHRS 2
ABADOM PAUL NHAEMKA 3619 UNIVERSITY ST MTL 24 GLADSTONE TERR BIRTLEY CO DURHAM ENGLAND	PH D 2	ABRAMEON MORTON 2185 JOHNSON ST VILLE ST LAURENT QUE	M SC 1 RI 4 3924
ABAYOMI CHRISTOPHER A 464 PRINCE ARTHUR ST W MONTREAL QUE	B SC 3 AV 8 1607	ACER ANTHONY MOISAN 2039 MCGILL COLLEGE AVE APT 24 MONTREAL 2 QUE	B ENG MI 4 VI 2 2446
ABBOTT LEON HEDLEY 28 17TH AVE ROXBORO QUE	2 TCHRS 1 MU 4 3737	ACHARYA PRATAP P 3522 JEANNE MANCE ST MONTREAL QUE	B ENG MCH 4 VI 2 0129
ABBOTT LEWIS W 4109 COTE DES NEIGES RD 383 STEWART ST OTTAWA ONT	B CL 4 WE 7 2621	ACHESON MARGARET 208 COTE ST ANTOINE RD WESTMOUNT QUE	B A 4 WE 7 1469
ABBOTT SMITH CHARLES W 4765 ROSLYN AVE MONTREAL QUE	MD CM 1 MU 6 2342	ACHONG EAMON H 3630 DUROCHER ST APT 48 10 KNOX ST PORT OF SPAIN TRINIDAD W I	MD CM 4
ABRUZZESE ELVIO 71 BEAUMONT MONTREAL QUE	B SC 2 CR 2 8596	ACHTMAN MARK 4580 BARCLAY AVE APT 5 MONTREAL QUE	B SC 1 RE 9 5946
ABSE DOROTHY JEAN ROYAL VICTORIA COLLEGE 381 TOWNLINE OAKVILLE ONT	B A 2 VI 2 0327	ACKERMAN CLAIRE 1 ST ETIENNE STE ANNE DE BELLEVUE QUE 5977C PARK AVE MONTREAL QUE	3 TCHRS
ABEL SALLY ANN 3485 VAN HORNE AVE MONTREAL QUE	B A 3 RE 1 0955	ACKLE ADELE MACDONALD COLLEGE 3831 HAMPTON AVE MONTREAL 28 QUE	3 TCHRS 2
ABELSON LEONARD 4887 LAPELRIE ST MONTREAL QUE	B A 1 RE 3 6884	ACKMAN CHARLES FREDRICK 5650 COTE ST LUC RD MONTREAL QUE	MD CM 4 MU 9 6359
ABERSON GERHARD M A MACDONALD COLLEGE WESTMOUNT PK 25 HEARLEM HOLLAND	B SC AGR 4	ADAIR ROSS KENNETH 386 ROSLYN AVE MONTREAL QUE	B A 4 WE 7 2548
ABOOD JOSEPH GEORGE 3600 LINTON AVE APT 96 1001 CITRUS DR LA HABRA CALIF USA	D D S 2 RE 9 4957	ADAM WILLIAM SCOTT 3422 STANLEY ST MTL 16 CLONEVIN PK LISBURN CO ANTRIM N IRELAND	PARTIAL VI 9 0526
ABOODY VIVIANNE 1803 NORTH AVE MONTREAL QUE	B A 2 RE 8 2978	ADAMAKIS ANASTASIA 3582 JEANNE MANCE ST MONTREAL 18 QUE	3 TCHRS AV 8 7926
ABRAHAMS OWEN GARTH 22 BELMONT ST TORONTO 5 ONT	B SC AGR 3	ADAMOVIKS INTA 6366B CHESTER AVE APT 21 MONTREAL 29 QUE	M S W 2 MU 8 5125
ABRAHAMS STEPHEN LEWIS 6775 MOUNTAIN RIGHTS AVE MONTREAL 29 QUE	B A 3 RE 8 8948	ADAMS JOHN HILLARY 612 VICTORIA AVE WESTMOUNT QUE	B A 1 MU 6 7977
ABRAMOVITCH ARTHUR 313 ROY ST APT 3 MONTREAL QUE	B ENG 1 VI 5 1734	ADAMS JULIA FRANCES 612 VICTORIA AVE WESTMOUNT QUE	B A 4 MU 6 7977
ABRAMOVITCH DAN IAN 3483 PEEL ST MTL 428A NOTRE DAME ST JOLIETTE QUE	B ENG EL 4 VI 2 0882	ADAMS MORELAND 3600 LINTON AVE MTL 14 PERREAULT AVE STE ANNE DE BELLEVUE QUE	D D S 2 RE 9 9678
ABRAMOWITZ MARK J 5774 MCALFEAR AVE COTE ST LUC QUE	B CL 3 MU 8 8743	ADAMS NELSON JAMES 1199 GODIN AVE VERDUN QUE	B A 1 PO 8 4816
ABRAMSON MARGARET ANN 2185 JOHNSON ST VILLE ST LAURENT QUE	B A 1 RE 4 3924	ADAMS THOMAS GREGORY P 138 MARIEVILLE RD RICHELIEU QUE	B ENG 2 OL 8 1073
		ADAMS WILLIAM PETER 2045 CRESCENT ST MONTREAL QUE	M SC 1 VI 4 0682
		ADAMSON EDITH JANET KIRK 708 PARKDALE AVE OTTAWA ONT	M L S 1
		ADAMSON JAMES T H 186 LONGUEUIL ST ST JOHNS QUE	B T M 2

DIRECTORY OF STUDENTS

Where two addresses are given, the second is the home address.

NAME ADDRESS	COURSE & YEAR TEL. NO.	NAME ADDRESS	COURSE & YEAR TEL. NO.
ADAMSON LESLIE 42 WINDSOR AVE WESTMOUNT QUE	M A 1 HU 4 2022	AMMED KHALIL 3619 UNIVERSITY ST MTL HOUSE NO 7 ST NO 16 MISRI SHAH LAHORE WEST PAKISTAN	PH D 4
ADAMSON MARION MARJORIE ROYAL VICTORIA COLLEGE 186 LONGUEUIL ST ST JOHNES QUE	B SC 1 VI 9 0993	AIELLO LUCY LITTORIA 11823 GRENET ST CARTIERVILLE QUE	B A 3 RI 8 8946
ADDISON JOHN RUNDLE 7425 CANORA RD APT 414 MONTREAL QUE	M SC 1 RE 1 5953	AIKINS ALFRED B 6415 VICTORIA AVE MONTREAL QUE	PARTIAL RE 9 0381
ADEGEYE EBENEZER A 3552 SHUTER ST MTL 42 ODDYEGHE ST ILE OLUJAI ONDO NIGERIA	B ENG 2	AIKMAN ROBERT HOWARD 1512 PINE AVE W MONTREAL QUE	B SC 2 WE 7 1641
ADLER ALAN STEVEN 6375 DE VIMY AVE MONTREAL QUE	B ENG AM 3 RE 7 2211	ALLEN MAGRETA CATHERINE STEWART HALL 315 QUEBEC ST SHERBROOKE QUE	F E DIP 1
ADLER HERBERT G CREASE CLINIC ESSONDALE B C 1256 JERVIS ST VANCOUVER B C	MED DIPL 3	AINSWORTH LOUIS P O BOX 174 MACDONALD COLLEGE ST GOVANS WILTON RD ILKLEY YORKS ENGLAND	M SC 1
ADLER MARTIN BRIAN 6375 DE VIMY AVE MONTREAL QUE	B ENG 1 RE 7 2211	AINSWORTH WILLIAM RUSSELL 745 WOODLAND AVE VERDUN QUE	M B D DIP PO 7 6414
ADLERBERG ALEXANDER 5505 WESTBOURNE AVE MONTREAL QUE	B SC 3 HU 4 0915	AISEN BONNIE MACDONALD COLLEGE 6680 MOUNTAIN SIGHTS MONTREAL QUE	3 TCHRS
ADLEY ALLAN DAVID 3315 RIDGEWOOD AVE MONTREAL QUE	B SC 4 RE 1 0618	AITKEN CATHERINE LYNN MACDONALD COLLEGE 10 STRATHEARN B MONTREAL WEST QUE	3 TCHRS 1
ADMASOU BELAI 3851 UNIVERSITY ST MTL P O BOX 242 ADDIS ABABA ETHIOPIA	B A 1	AJEMIAN GEORGE KEVORK 3617 LORNE CRES MONTREAL QUE	D D S 1
ADSHAD DONNA ANN ROYAL VICTORIA COLLEGE 51 PINEHURST CRES TORONTO ONT	B SC 4 VI 2 0598	AJERSCH FRANK 2175 SERCY ST MONTREAL QUE	B ENG 2 LA 3 1779
AGAMA GODFRIED K 532 MILTON ST MTL C O A A TETTEH P O BOX 1922 ACCRA GHANA	B A 3 VI 5 2857	ALAIN DARIUS 4995 COTE STE CATHERINE APT 23 MONTREAL QUE	2 TCHRS 1 RE 9 0770
AGENSKY NATHAN 4529 PARK AVE MONTREAL QUE	B ENG CIV 4 AV 8 4945	ALAIN PIERRETTE 16 SPRINGROVE CRES OUTREMONT QUE	B SC 2 CR 9 9861
AGENSKY SYLVIA 4529 PARK AVE MONTREAL QUE	B SC 1 AV 8 4945	ALALOUF ROBERT HENRY 2547 BRINTON RD MONTREAL 26 QUE	B ENG 1 RE 3 0554
AGGARWAL RAJKUMAR G 471 PRINCE ARTHUR W MTL 177 MARINE DR BOMBAY INDIA	B COM 1	ALBISSEY ANTHONY MICHAEL 45 52ND AVE BOUCHERVILLE QUE	B ENG 1 BL 5 1115
AGHADJANIAN BEDROE 7230 10TH AVE APT 8 VILLE ST MICHEL QUE	B ENG 1 RA 8 5803	ALBRIGHT HELEN ELIZABETH 835 LEDUC ST VILLE ST LAURENT QUE	B A 1 RI 7 5177
AGHUS ANTHONY JULIAN 704 48TH AVE LACHINE QUE	PH D 3 ME 4 1948	ALBRIGHT JESSIE CATHERINE 835 LEDUC ST VILLE ST LAURENT QUE	B A 4 RI 7 5177
AGRA WILLIAM STEWART 4052 GREY AVE MONTREAL QUE	MD CM 4 HU 9 8337	ALBU BARBARA JUNE 3460 SIMPSON ST APT 807 MONTREAL 25 QUE	M A 1 WE 3 2244
AQUILAR JOSE ANTONIO 3698 ONTARIO AVE MONTREAL QUE	M SC 1 VI 3 1251	ALCOCK ANTONY EVELYN 3484 DUCHOCHER ST APT 312 MONTREAL QUE	B A 3 VI 9 1088
AHERN ARTHUR N 3658 RIDGEWOOD AVE APT 506 MONTREAL QUE	B SC 2 RE 9 4578	ALDERSON SMITH C C 3851 UNIVERSITY ST MTL EASTFIELD HOUSE BR AUNSTON NEAR RUGBY WARWICKS U K	B SC 3 VI 4 0977
AHERN JOHN B 545 PINE AVE W MTL 1066 MISSION CANYON RD SANTA BARBARA CALIF USA	MD CM 3 VI 5 7045	ALDOUS NORMAN RONALD 4915 MAPLEWOOD AVE APT 1 MONTREAL QUE	MED DIPL 2 RE 1 2475
		ALONG STANLEY 3439 HUTCHISON ST MONTREAL QUE	B COM 3 VI 9 1870

DIRECTORY OF STUDENTS

Where two addresses are given, the second is the home address.

NAME ADDRESS	COURSE & YEAR TEL. NO.	NAME ADDRESS	COURSE & YEAR TEL. NO.
ALEXANDER ANDREW BOAK 3653 UNIVERSITY ST MTL 1812 RIVERDALE AVE CALGARY ALTA	B ARCH 1 VI 5 2738	ALLEN ROBIN RICHARD 3641 UNIVERSITY ST MTL 7 BUCKINGHAM PALACE GDNS LONDON S W 1 ENGLAND	B A 2 VI 4 6048
ALEXANDER BENEDICT F 3484 PEEL ST MTL ST GEORGES NFLD	B ENG CIV 4 VI 4 5922	ALLEN STEPHEN ROSE 4841 VICTORIA AVE MONTREAL QUE	B ENG CIV 4 HU 6 5176
ALEXANDER JAMES FROSST DOUGLAS HALL 255 COLVILLE RD CHARLOTTE N C USA	MD CM 1	ALLESLEV IAN 1595 OUIMET ST VILLE ST LAURENT QUE	B ENG EL 4 RI 7 6104
ALEXANDER MARY CELIA 25 PERREAULT ST STE ANNE DE BELLEVUE QUE 1606 SEAFORTH AVE MONTREAL QUE	ND CRAFTS 1	ALMONDOZ DAVID ANTHONY 8987 TOLMURST ST MONTREAL 11 QUE	B SC 1 DU 1 3664
ALEXANDER MICHAEL O 3660 THE BOULEVARD WESTMOUNT QUE	B COM 2 HU 1 9669	ALTENBERG SYLVIA 4 ST JOSEPH STE ANNE DE BELLEVUE QUE 5227 ST URBAIN ST MONTREAL QUE	3 TCHRS
ALEXANDER WALTER J 266 LANSDOWNE AVE MTL 584 HAVELOCK ST LANCASTER N B	MD CM 4 WE 5 1829	ALTIMAS NORA 213 DRESDEN AVE MONTREAL QUE	B COM 4 RE 9 1832
ALGIE ROBERT MALCOLM 20786 LAKESHORE RD BAIE D'URFEE QUE	B SC AGR 4	ALTMAN SARINA 3466 SHUTER ST MONTREAL QUE	B ARCH 6 VI 2 4756
ALI MUZAFFAR LIBRARY SCHOOL MCGILL UNIVERSITY MONTREAL QUE	M L S 1	ALTECHULER AMNON 6612 MERTON RD COTE ST LUC QUE	B SC 1 HU 8 6204
ALIREZA FAROUK 501 PINE AVE W MTL 21 BAHQAT ALY CAIRO U A R	B ENG 2	ALTSHULLER BERNARD 2250 COTE VERTU RD VILLE ST LAURENT QUE	B ENG MET 4 RI 7 9075
ALLAN DAVID GEOFFREY P DOUGLAS HALL CAIXA POSTAL 8129 SAO PAULO BRAZIL	B A 1	ALTSHULLER JOSEPH 2250 COTE VERTU RD VILLE ST LAURENT QUE	B ENG CIV 4 RI 7 9075
ALLAN ROBERT FRASER 212 TALLWOOD PL ROSEMERE QUE	B ENG 2 NA 5 4007	ALU SAMSON OKO 3898 PARC LAFONTAINE APT 1 MTL P O BOX 1 AFIKPO NIGERIA WEST AFRICA	B ENG 2
ALLAN RONALD STEWART 5244 SARAWAG ST MONTREAL 29 QUE	PH D 3 HU 8 7440	ALVAREZ MOLINA GUSTAVO A 1433 STANLEY ST APT 4 P O BOX 173 TEGUCIGALPA HONDURAS C A	B SC 2 VI 5 2342
ALLASE ANNE 4708 CLAMMANALD AVE APT 17 MONTREAL 28 QUE	B A 1 HU 1 4657	ALWARD KARIN VICTORIA 1028 GRAHAM BLVD TOWN OF MT ROYAL QUE	B A 3 RE 7 3446
ALLEN CHARLOTTE MARY 100 BROCK AVE S MONTREAL WEST QUE	B A 2 HU 6 0252	ALZNER EDGAR 7690 2ND AVE MONTREAL 38 QUE	B ENG MCH 4 RA 7 8306
ALLEN CLIVE V 5431 MACMAHON AVE MONTREAL QUE	B C L 4 HU 4 9432	AMANO MINORU 3504 PARK AVE APT 3 MONTREAL QUE	PH D 3 VI 4 4085
ALLEN DAVID IVOR A 17 P O 84 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	B SC AGR 3	AMARON ROBERT ERROL 3511 PEEL ST MONTREAL QUE	M A 1 VI 4 4777
ALLEN HAROLD DON 7534 WISEMAN AVE MONTREAL 15 QUE	M A 1	AMDUR MARILYN 6077 WILBERTON AVE MONTREAL QUE	3 TCHRS RE 1 0872
ALLEN LORNA DEREEN ROYAL VICTORIA COLLEGE 3025 GLENCOE AVE TOWN OF MT ROYAL QUE	B A 4 VI 2 0477	AMERY ANTHONY DEREK 503 37TH AVE RIVERSIDE PK VILLE LA SALLE QUE	M A 1 DO 6 9636
ALLEN MARY PHYLLIS A 1460 MCCOY AVE APT 502 MONTREAL 25 QUE	B SC 1 VI 4 6710	AMEY GERALD XAVIER 356 8TH AVE ST EUSTACHE SUR LE LAC 51 COMO ST ALPHINGTON VICTORIA AUSTRALIA	PH D 1
ALLEN MERITROSE ROYAL VICTORIA COLLEGE ALLENDALE R 1 PARIS ONT	B A 2 VI 2 0334	AMIR KALALI MENRI 2065 BISHOP ST MONTREAL QUE	D D S 3 VI 2 0723
ALLEN NORMAN TRISTRAM M 15 WINCHESTER AVE WESTMOUNT QUE	B SC 2 HU 1 6548	AMOS ANTHONY 3554 STE FAMILLE ST APT 1 MTL BOX 279 TAKORADI GHANA	B ENG AM 5 VI 5 0834
ALLEN PATRICIA EDITH 155 NICKSON AVE ST LAMBERT QUE	M S W 1 OR 1 3094		

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NAME ADDRESS	COURSE & YEAR TEL. NO.	NAME ADDRESS	COURSE & YEAR TEL. NO.
AMY JULIA BERYL MACDONALD COLLEGE 44 ELLICE ST BEAUMHARNOIS QUE	2 TCHRS 1	ANDERSON RAY SCOTT 3446 VENDOME AVE MONTREAL 28 QUE	B ENG EL 3 HU 4 9070
AMY ROBERT ERNEST 3508 DUROCHER ST MTL 44 ELLICE ST BEAUMHARNOIS QUE	B ENG CIV 3 VI 9 4352	ANDERSON SANDRA JANE MACDONALD COLLEGE 129 FICARDIE ST PREVILLE QUE	2 TCHRS 1
AMYOONY ADELIA VICTORIA 7930 QUERBES AVE MTL 95 SWIRLEY ST HALIFAX N S	B L S 1 CR 7 9209	ANDERSON SUSAN LOUISE 3489 STANLEY ST APT 201 429 HURON AVE OTTAWA ONT	B L S 1 AV 8 6325
AMVOT ROBERT 346 REDFERN AVE WESTMOUNT QUE	B C L 1 WE 7 8678	ANDRE LESLIE S 3420 HUTCHISON ST APT 5 MONTREAL QUE	B COM 3 VI 5 5467
ANASTASSIADES PHOEBUS T UNITED THEOLOGICAL COLL P O BOX 131 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	MD CM 2 VI 4 0752	ANGELINI LINDA CAROL 980 ROCHEW VILLE ST LAURENT QUE	B A 2 RI 7 5164
ANCHEL HARVEY 5520 ROBINSON AVE COTE ST LUC QUE	B SC 2 HU 8 1671	ANGELL HAROLD 4671 PARK AVE APT 12 MONTREAL QUE	PH D 2 VI 9 2036
ANDERSEN RICHARD G 3851 UNIVERSITY ST MTL 1232 ESQUIMALT AVE WEST VANCOUVER B C	MD CM 4 VI 4 0977	ANGLIN NANCY E 761 42TH AVE LACHINE QUE	B SC H 2 ME 7 0998
ANDERSON BARBARA JEAN MACDONALD COLLEGE 231 RADIO ST NEWCASTLE N B	2 TCHRS 1	ANGUS FREDERICK FORBES 636 ROSLYN AVE MONTREAL 6 QUE	B SC 3 HU 1 1897
ANDERSON BRUCE CARL 3446 VENDOME AVE MONTREAL 28 QUE	B ARCH 2 HU 4 9070	ANGUS IAN WILLIAM M 202 SENNEVILLE RD R R 1 ST ANNE DE BELLEVUE QUE	B ENG EL 3
ANDERSON CLIFFORD WILFRED 21 DUPONT BOUD DE L EAU STE DOROTHEE QUE	PH D 3 MU 9 1553	ANGUS JEAN PEFRONA 5475 WESTMINSTER N MONTREAL QUE	PARTIAL HU 8 5776
ANDERSON DOROTHY LOUISE LAIRD HALL 13 PLAINSMAN DR RIVERVIEW HEIGHTS STREETSVILLE ONT	B SC H EC 4	ANGUS WILLIAM DAVID 699 ABERDEEN AVE WESTMOUNT QUE	B C L 1 HU 6 3355
ANDERSON DUNCAN PERRY 89 ARLINGTON AVE WESTMOUNT QUE	B SC 1 WE 7 1697	ANISFELD MOSHE 6110 DUROCHER AVE MTL 34A AVODA ST TEL AVIV ISRAEL	M A 1 CR 9 9380
ANDERSON ERIC MAYNARD 2155 ST MARK ST APT 10 1502 MYRON DR PORT CREDIT ONT	B ENG CIV 3 WE 2 7097	ANNAND PETER NORMAN S 3827 OLD ORCHARD AVE MONTREAL 8 QUE	B ENG EL 4 HU 4 6471
ANDERSON EUGENE C 3600 ST FAMILIE APT 3 2515 PIEDMONT AVE BERKELEY 4 CALIF USA	MD CM 4	ANNESLEY JOHN FRANCIS 1 SUNNYSIDE AVE WESTMOUNT QUE	B ENG MCH 5 WE 3 8092
ANDERSON GARY JOHN 3446 VENDOME AVE MONTREAL 28 QUE	B SC 1 HU 4 9070	ANNO CHARLYNE E 500 PINE AVE W MTL 827 COLLEGE AVE REDLANDS CALIF USA	MD CM 4
ANDERSON JANET SAIRD ROYAL VICTORIA COLLEGE 9 MONKSTOWN RD ST JOHN S NFLD	B SC P OT 2	ANTENEN ROGER EDMOND 3433 DUROCHER ST APT 505 MONTREAL 18 QUE	B ENG EL 3 VI 9 6707
ANDERSON JON S 61 OAKLAND AVE WESTMOUNT QUE	B C L 4 HU 4 2470	ANTHONY CARL L BRITTAIN HALL NO 58 EVANS ST ST AUGUSTINE TRINIDAD W I	B SC AGR 3
ANDERSON JUDITH MARY 5232 EARNSCLIFFE AVE MONTREAL QUE	H S D DIP HU 4 8701	ANTONAGGI ANDREW ANTHONY 8045 DROLET ST MONTREAL QUE	B COM 1 DU 8 3039
ANDERSON MARGARET EDNA 1465 CRESCENT ST APT 102 MTL R R 1 BELLEVILLE ONT	M A 2 VI 5 2865	ANVIK ERIK MERLAUG 4080 COOL ST VERDUN QUE	B ENG CIV 5 PO 7 2005
ANDERSON MARGARET JOAN LAIRD HALL 112 THORNTON AVE TOWN OF MT ROYAL QUE	2 TCHRS 1	ANYAHURU EMMANUEL A 3552 SHUTER ST MTL UMUOBASI P A VIA ASA EASTERN NIGERIA	B ENG 2
		ANZARUT TONY SALIM BEN 316 MELBOURNE AVE TOWN OF MT ROYAL QUE	B SC 4 RE 8 8113
		AOYAGI SHIGEO 3485 MCTAVISH ST MTL NO 6 4 CHOME NAGASAKI TOEHIMAKU TOKYO JAPAN	PARTIAL

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APEDAILE LEONARD PETER P BRITTAIN HALL 483 STRATHCONA WESTMOUNT QUE	B SC AGR 4	ARMENTEROS ERNESTO JAIME 3484 PEEL ST MTL BOX 462 CIUDAD TRUJILLO DOMINICAN REPUBLIC	B ENG 1
APEN EDWARD M 3466 MCTAVISH ST MTL 2844 MACKLEM AVE NIAGARA FALLS N Y USA	MD CM 3 AV 8 9533	ARMITAGE GEORGE D H 3505 UNIVERSITY ST MTL OAKLANDS MANOR THORNER NR LEEDS YORKSHIRE ENGLAND	B A 3 VI 4 0624
APPEL DAVID HARRY 501 ROSLYN AVE WESTMOUNT QUE	B A 2 WE 4 1158	ARMOUR JOHN A 3058 SHELBROOKE ST W MONTREAL QUE	MD CM 2 WE 5 4232
APPEL GLORIA ANN MACDONALD COLLEGE 5195 PRINCE OF WALES MONTREAL QUE	3 TCHRS	ARMSTRONG BARBARA ANNE LAIRD HALL 416 THIRD AVE OTTAWA ONT	B SC H EC 4
APPEL MAUREEN ROSE ROYAL VICTORIA COLLEGE 436 MAYFAIR AVE OTTAWA 3 QNT	B A 2 VI 2 0847	ARMSTRONG GEORGE DORAN BRITTAIN HALL 12 BECKLER AVE LA TUQUE QUE	B ED 1
APPLE MORTY 834 STUART AVE MONTREAL QUE	B C L 3 CR 4 1529	ARMSTRONG JOHN BRIGGS 7 BRUNET AVE PTE CLAIRE QUE	B SC 2 OX 5 4760
APPLEBAUM SEVERLEY RUTH 3156 DUROCHER AVE MONTREAL QUE	B A 1 CR 7 2751	ARMSTRONG RICHARD JOHN 4630 WESTMORE AVE MONTREAL 28 QUE	B SC 2 HU 6 3692
ARA ROUSHAN 35 C GONAKTULI LANE DACC 2 EAST PAKISTAN	PH D 2	ARMSTRONG ROBERT GORDON 4811 WILSON AVE MONTREAL 28 QUE	M A 2 HU 4 4864
ARAPE BEATRIZ ROYAL VICTORIA COLLEGE AVE ANDRES BELLO E D F GARTEN NO 14 CARACAS VENEZUELA	B ENG 1 VI 9 0013	ARMSTRONG ROSE K MACDONALD COLLEGE 416 THIRD AVE OTTAWA ONT	B SC AGR 1
ARBESS BARBARA 5008 PRINCE OF WALES AVE MONTREAL 29 QUE	B ED 4 HU 1 8875	ARMSTRONG SANDRA JUNE 49 WINSTON CIRCLE PTE CLAIRE QUE	B A 2 OX 5 5176
ARBESS JUDITH ROSALIE 5005 PRINCE OF WALES AVE MONTREAL 29 QUE	B SC 1 HU 1 8875	ARMSTRONG WILLIAM D 135 CLAUDEBOYE AVE WEST 9 OVIINGTON AVE BOSCOMBE Bournemouth ENGLAND	B COM 3
ARBESS SAUL EDWIN 4445 HINGSTON AVE MONTREAL QUE	B A 3 HU 4 5823	ARNOLD CHARLES B 3504 PARK AVE APT 10 MTL 1224 NO TACOMA AVE TACOMA WASH USA	MD CM 4 VI 4 4320
ARBOIC JOSEPH JOHN GERARD 4391 HARVARD AVE MTL BOX 849 CAMPELLLE BAY QUE	B ENG 1 HU 9 4268	ARONOFF EDWARD EARL 4040 VENDOME AVE MONTREAL QUE	B A 2 HU 4 2831
ARBOIT JOAN M 456 FINE AVE W APT 37 343 MARION ST BROOKLYN 33 N Y USA	MD CM 3 VI 4 8382	ARONOFF GRACE JOYCE ROYAL VICTORIA COLLEGE 4040 VENDOME AVE MONTREAL QUE	B A 4 VI 2 0847
ARCARD EDMONDO 7750 DELORIMIER ST MONTREAL QUE	B ENG 2 RA 1 2363	ARONOFF MURIEL RUTH 1 BROWN ST APT 13 STE ANNE DE BELLEVUE QUE 8367 WAVERLY ST MONTREAL QUE	3 TCHRS
ARCHIBALD ALLEN CLIFFORD 2980 GLENCOE AVE MONTREAL 16 QUE	B ENG 3 RE 7 3433	ARONSON ISRAEL SIMON E 5324 WAVERLEY ST MONTREAL QUE	B ENG 1 CR 9 0611
ARCHIBALD CHRISTOPHER M 482 LAKESHORE RD BEAUREPAIRE QUE	B ENG CIV 4 OX 8 6734	ARONSON NORMAN 3235 APPLETON AVE MONTREAL QUE	B SC 3 RE 3 9560
ARCHIBALD GARY MERVYN 8005 MANSFIELD ST APT 14 MONTREAL QUE	PH D 2 VI 2 3338	ARSCOTT DAVID PHILIP 6037 38TH AVE MONTREAL 36 QUE	B ENG 2 RA 8 8870
ARGYRAKIS MICHAEL E 4860 GROSVENOR AVE MONTREAL QUE	MD CM 2 HU 6 7751	ARTHURS NEVILLE EDISON MACDONALD COLLEGE BLUE CASTLE FARM GEORGE S PLAIN P O JAMAICA B W I	B SC AGR 2
ARLIN JUDITH 2225 BARGLAY AVE MONTREAL QUE	3 TCHRS RE 7 8317	ARUNDEL GERALD BRIAN 3424 PEEL ST APT 18 MONTREAL QUE	M A 4 VI 5 1332
ARMACOST SUSANNA MURRAY ROYAL VICTORIA COLLEGE 5104 WHITEFORD AVE BALTIMORE MD U S A	B SC 1 VI 2 0597	ARVANITAKIS CONSTANTINOS 2874 CITY COUNCILLORS ST MONTREAL 2 QUE	B SC 3 VI 9 9061
ARMERUSTER BARBARA IRMA 144 SECOND AVE LASALLE QUE	B A 3 SO 5 0596		

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ASANO SHOZO EDWARD 3681 HUTCHISON ST APT 32 MONTREAL QUE	B SC 4 AV 8 0435	ATTRIDGE HEATHER ISABEL 32 STRATFORD RD MONTREAL 29 QUE	B A 1 HV 1 1364
ASBURY ALISON MARY 5711 WESTMINSTER AVE MONTREAL 29 QUE	B SC 2	ATWOOD JOHN WILLIAM 3440 KINGSTON AVE MONTREAL 28 QUE	B ENG 2 HV 6 5442
ASCAN ALAN GEORGE 4610 SHERBROOKE ST LACHINE QUE	B ENG CH 4 ME 7 8803	AUBANEL CLAUDE JEAN F 623 PRINCE ARTHUR ST W APT 3 MONTREAL QUE	B SC 2 VI 5 0352
ASENCIO FELIZ FRANCISCO 500 PINE AVE W APT 15 14 ELPETH AVE KINGSTON 10 JAMAICA W I	B SC 1	AUBIN SUZANNE FRANCES ROYAL VICTORIA COLLEGE 212 DUNDAS ST N OAKVILLE ONT	B A 1 VI 2 0597
ASHE THOMAS J 3350 GOYER ST MTL 2585 BOSTON RD NO WILBRAHAM MASS USA	D D B 3	AUBRY JOSEPH CHARLES Y 3511 JEANNE MANCE ST MTL 28 VILLENEUVE CHICOUTIMI QUE	B ENG COM 5 VI 9 0492
ASHKAR VINCENT MANSOUR 3415A HUTCHISON ST MONTREAL QUE	B ENG CIV 4	AUDET ELAINE CATHERINE ROYAL VICTORIA COLLEGE 150 VIMY ST SHERBROOKE QUE	B SC N 1 VI 2 0829
ASHWORTH MICHAEL A 3664 THE BOULEVARD WESTMOUNT QUE	MD CM 3 HU 4 2046	AUERBACH ARNOLD 705 QUERBES AVE APT 5 OUTREMONT QUE	B ENG EL 3 CR 2 8987
ASKINASY NINA F 3333 COTE ST CATHERINE P O BOX 72 MORIN HEIGHTS QUE	B A 2 RE 1 1161	AUNE VILIS 4370 GRAND BLVD APT 3 MONTREAL QUE	B ENG 1 HV 9 6710
ASHER HOWARD LOUIS 5220 VICTORIA AVE APT 15 MONTREAL QUE	M S D DIP RE 3 4636	AURLICK NORMAN 91 LAPALME VILLE ST LAURENT QUE	B ENG 2 RI 4 6572
ASPINALL CLIVE NICHOLAS 548 SHERBROOKE ST W MTL C O B M N TO LIBYA B P P O 55 BENGHAZI LIBYA	B SC 1 VI 4 0551	AUSTER HENRY 2247 MAPLEWOOD AVE APT 1 MONTREAL QUE	B A 4 RE 9 3825
ASPLER JERROLD 2054 VAN HORNE AVE MONTREAL QUE	B COM 1 RE 8 7176	AUSTON DAVID HENRY 447 MT STEPHEN AVE WESTMOUNT QUE	B ENG PHY 3 WE 5 4351
AST HELOA 4870 WALKLEY AVE APT 9 MONTREAL QUE	MED DIPL HU 8 1073	AVERTICK CALVIN LARRY 638 CHAMPAGNEUR AVE MONTREAL QUE	B ENG 2 CR 2 2075
ASTER SIDNEY 5764 ELDRIDGE COTE ST LUC QUE	B A 1 HU 4 0994	AVRUTICK JUDITH BRENDA 5548 TRANS ISLAND AVE MONTREAL QUE	B A 1 RE 7 6261
ASTON EDITH PAULINE 320 61ST AVE L ABORD A PLOUFFE QUE	PARTIAL MU 1 8371	AWUKU ALEXANDER 3490 HUTCHISON ST MTL P O BOX 3 TUTU GHANA WEST AFRICA	B COM 3 VI 2 8580
ATHAR SYED SHAH HASAN 3733 JEANNE MANCE ST MTL BAITUL ATHAR USMANIA COLONY KARACHI PAKISTAN	M S W 1 VI 2 0339	AXELROD EARL ALLAN 4123 ISABELLA AVE MONTREAL QUE	B COM 1 RE 7 4144
ATHERREY MARVA MARJORIE ROYAL VICTORIA COLLEGE 5 STONE ST PORT OF SPAIN TRINIDAD T W I	B A 2 VI 2 0327	AXELSEN FRITZ JAROLIM 3587 UNIVERSITY ST MONTREAL QUE	B SC 3
ATKINS WILLIAM MICHAEL 5530 COTE ST LUC APT 22 MONTREAL 29 QUE	B SC 3 HV 4 1096	AXMAN MICHAEL MARK 5215 VAN HORNE AVE APT 4 MONTREAL QUE	B SC 1 RE 1 0165
ATKINSON JOHN NORMAN 83 DOBIE AVE MONTREAL QUE	B SC 2 RE 7 1691	AYER SHIRLEY 493 AVE DES BOULEAUX REPENTIGNY QUE	M A 1
ATKINSON PATRICIA ANNE STEWART HALL NORWOOD ONT	P E DIP 2	AYLES LESLEY ANNE MACDONALD COLLEGE 83 LAURIER AVE SAIE COMEAU QUE	3 TCHRS
ATLAS BETTY ROYAL VICTORIA COLLEGE 3629 74 ST S W CALGARY ALTA	B A 4 VI 2 0526	AYOUP RAYMOND G 6222 DE VIMY AVE MONTREAL QUE	B C L 2 RE 9 8217
ATTORAH PETER FREDERICK 3532 SHUTER ST MTL P O BOX 29 AKROKEREI GHANA	B ENG CIV 4 AV 8 5787	AYRE HARVEY BRITTAIN HALL 141 WATERFORD BRIDGE RD ST JOHNES NFLD	3 TCHRS 1
		AZAN YULANDA MICHAEL ROYAL VICTORIA COLLEGE SPALDINGS P O JAMAICA W I	B A 4 VI 2 0526

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B			
BAATZ PAUL ORMONDE 4801 VICTORIA AVE MONTREAL 29 QUE	B A 3 MU 1 1583	BAILIN DOROTHY JOYCE 110 WILLOWDALE AVE OUTREMONT QUE	B SC 1 RE 8 9653
BABARIK NANCY ROSE ROYAL VICTORIA COLLEGE 480 DREW ST OSHAWA ONT	B SC P OT 4 VI 2 0334	BAILLIE JOHN FRASER 411 CLARKE AVE WESTMOUNT QUE	B A 2 WE 3 3157
BABATZANIJ JOHN JEWISH GENERAL HOSP SKIATHON 65 ATHENS GREECE	MED DIPL 3	BAIN ALAN J T BRITTAIN HALL 255 GLENGARRY AVE TOWN OF MT ROYAL QUE	M S D DIP 1
BASKIN ALEXANDER 2308 BELGRAVE AVE MONTREAL QUE	B ENG MCH 5 MU 8 6050	BAIN STEWART WILLIAM 418 FINE AVE W APT 2 MONTREAL QUE	B ENG EL 3 AV 8 1506
BACKLER ALAN LEWIS 44 ROXBOROUGH AVE WESTMOUNT 6 QUE	B A 2 MU 1 4618	BAINES BEVERLEY 3 KILLARNEY GARDENS PTE CLAIRES QUE	B A 2 OX 5 9718
BACKMAN HOWARD 55 9TH AVE LABALLE QUE	B ENG EL 4 DO 6 0895	BAIR KEITH E 3421 SHUTER ST APT 4 MTL 6 LYNHURST CRES KINGSTON 5 JAMAICA W I	D D S 2 VI 2 4927
BACON GARY FRANCOIS 3600 LINTON AVE MTL 1685 UNIVERSITY DR SAN JOSE 26 CALIF USA	MD CM 3 RE 9 8308	BAIRD NEIL ALEXANDER DOUGLAS HALL INVERDON BRIDGE OF DON ABERDEEN SCOTLAND	B ENG 2
BACON MARY ELLEN 26 WAVERLEY RD PTE CLAIRES QUE	B ED 3 OX 5 8615	BAIRD NORMAN COLIN 930 47TH AVE LACHINE QUE	B SC 1 ME 7 3466
BADIAN JOHN DAVID 25 MORTHCOTE RD HAMPSHIRE QUE	B ENG 2 MU 6 3020	BAIRSTOW FRANCES 120 AVONDALE PL BEACONSFIELD QUE	M A 1 OX 5 4969
BADOUR WILLIAM GEORGE 3801 BARCLAY AVE APT 7 MONTREAL QUE	B A 4 RE 3 3360	BAKER ANN LILLIS ROYAL VICTORIA COLLEGE PHILLIPSBURG QUE	B ED 3 VI 9 0858
BAEHELEN EMIL X DOUGLAS HALL 7220 FOREST AVE RIDGEWOOD 27 N Y USA	MD CM 2 VI 8 7849	BAKER IRENE JULIA 1660 DE BIENVILLE ST ST BRUNO QUE	M S W 2 OL 3 2379
BAFFI HELEN 5021 JEANNE MANCE ST MONTREAL QUE	D D S 3 CR 7 8032	BAKER LINDA F 94 BAYVIEW AVE PTE CLAIRES QUE	B SC M EC 2 OX 5 6910
BAGAN LIONEL JASON 460 BROOKFIELD AVE TOWN OF MT ROYAL QUE	B CL 4 RE 8 6862	BAKER PATRICK ARTHUR 3235 GOVER ST MONTREAL 26 QUE	M S D DIP RE 3 3277
BAIG MIRZA Y A 2720 GOVER ST APT 9 MONTREAL QUE	PH D 3 RE 9 0433	BALASSIANO FERRIAL T 626 POWELL AVE TOWN OF MT ROYAL QUE	B SC 2 RE 7 0363
BAILEY CHRISTOPHER M 5127 EARNSCLIFFE AVE MTL 163 CARRUTHERS AVE KINGSTON ONT	B ENG 2 MU 6 6995	BALAZS ANNE MARIE 3553 DUROCHER ST APT 401 MONTREAL QUE	B ARCH 6 VI 5 4645
BAILEY FAY MONICA ROYAL VICTORIA COLLEGE 26 BRUNSWICK AVE SPANISH TOWN JAMAICA W I	B SC 1 VI 9 0993	BALCOM ROBERT D MACDONALD COLLEGE PORT WILLIAMS KINGS CO N S	B SC AGR 3
BAILEY HARVEY ROY 8045 BISHOP ST MTL 35 BEECH ST W SUDBURY ONT	B SC 4 VI 9 2995	BALINT KATHLEEN 3260 BARCLAY AVE APT 14 MONTREAL QUE	B SC P OT 1 RE 3 8178
BAILEY ROBERT ERNEST 809 LOGAN ST ST LAMBERT QUE	B ENG 2 OR 1 1859	BALKWILL EILIDH 570 MILTON ST APT 14 MTL R R 1 WALLACEBURG ONT	B A 1 VI 4 1675
BAILEY RONALD ALBERT 1947 ST LUKE ST APT 3 MONTREAL QUE	PH D 4	BALL JAMES G 62 LUCERNE AVE PTE CLAIRES QUE	B ENG 2 OX 7 2683
BAILEY ROY MACDONALD DOUGLAS HALL 3 AUBREY RD LONDON W 8 ENGLAND	B COM 1	BALL ROBERT FRANK DOUGLAS HALL INWOODS HOUSE INWOODS RUGBY ENGLAND	B SC 2
		BALL WESLEY BENJAMIN 3508 UNIVERSITY ST MTL THE PARSONAGE BUTTON QUE	PARTIAL VI 9 2042
		BALLANTYNE ALASTAIR DOWOLAS HALL 162 CAIRN SIDE RD GLASGOW SCOTLAND	M SC 1 VI 5 9417

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BALLANTYNE ELIZABETH MARY 33 FORDEN AVE WESTMOUNT QUE	B A 4 WE 5 3060	BARBOUR PETER GRANVILLE 993 MACNAUGHTON RD TOWN OF MT ROYAL QUE	B ENG 1 RE 7 2852
BALLANTYNE JUDITH ANN 5522 RANDALL AVE MONTREAL QUE	B A 4 HE 4 8095	BARCILON ALBERT I C 2698 SOISSONS AVE MONTREAL QUE	B ENG PHY 5 RE 1 1203
BALLENTYNE ALFRED A 2001 UNION AVE MONTREAL QUE	B A 4 VI 4 0736	BARCLAY CAROL RUTH STEWART HALL PTE FORTUNE QUE	P E DIP 2
BALMER JOHN ELLSWORTH 1500 STANLEY ST APT 1022 212 FOREST HILL RD TORONTO ONT	B COM 2 AV 3 3642	BARCLAY JANET ANDERSON 92 DUPOIN AVE CHATEAUGUAY HEIGHTS QUE	B A 4 OX 2 6869
BALTAKIS BRUNO ALBERT 186 4TH AVE VILLE LASALLE QUE	B ENG 1 BE 6 7825	BARCLAY SUSAN LOUISE MACDONALD COLLEGE 92 DUPONT AVE CHATEAUGUAY HEIGHTS QUE	B SC H EC 1
BALTAS LEONIDAS 9905 JEANNE MANCE MONTREAL QUE	PH D C	BARDANA EMIL 3466 MCTAVISH ST MTL 10103 39TH AVE CORONA L I 68 N Y USA	MD CM 3 AV 8 9533
BAMBIGER EMILY 4482 CIRCLE RD MONTREAL QUE	B A 1 RE 8 7655	BARKER TIMOTHY GWYNNE 1529 MCGREGOR AVE APT 224 MTL LUND COURT NAWTON YORK ENGLAND	B SC 3 WE 3 0051
BAN THOMAS ARTHUR 4136 DECARIE BLVD APT 11 MONTREAL QUE	MED DIPL 4 HU 1 6706	BARKOVSKY WILLIAM JACOB 475 PINE AVE W MTL 25 VICTORIA ST ST CATHARINES ONT	B ED P ED 3 VI 4 4270
BANBURY JOSEPH TREMLETT BRITTAIR HALL BOX 218 BRIGHTON ONT	B SC AGR 4	BARLETTI GEORGES H N 1310 PINE AVE W MTL BOREEN REID ST EXTENTION HAMILTON BERMUDA	MD CM 2 VI 4 0334
BANCROFT FRANCES MASON ROYAL VICTORIA COLLEGE 103 WOODLEIGH RD DEDHAM MASS USA	B A 2 VI 2 0113	BARLOW DAVID DISNEY 3653 UNIVERSITY ST MTL 10 SOUTH TERR THURLOE SQ B W 7 LONDON ENGLAND	B COM 1 VI 2 2073
BAND MELVIN 6146 DUROCHER AVE MONTREAL QUE	B SC 1 CR 6 7575	BARNEAD MARTIN JAMES E MACDONALD COLLEGE ORANGE HILL ESTATES ST VINCENT T W I	B SC AGR 4
BANDZIERZ ARKADY A S 8100 SHERBROOKE ST E MONTREAL 5 QUE	PH D 2 CL 9 4829	BARNES CHARLES J MACDONALD COLLEGE 91 ST GERMAIN AVE TORONTO 12 ONT	B SC AGR 3
BANDERJEE SAMIR KUMAR 3609 UNIVERSITY ST MTL 35 SCOTT LANE CALCUTTA 9 INDIA	PH D 4 AV 8 6307	BARNETT DIANE LEONE 1009 SHERBROOKE ST W MTL 19 FLORA ST CARLETON PLACE ONT	B SC P OT 2
BANIKIN CLARICE ROYAL VICTORIA COLLEGE P O BOX 220 STEPHENVILLE NFLD	B A 2 VI 2 0598	BARNETT ELLEN 4876 WILSON AVE MONTREAL QUE	B A 2 HU 6 4315
BANIKIN LORRAINE ROYAL VICTORIA COLLEGE MAIN ST STEPHENVILLE NFLD	B A 1 VI 2 0597	BAROUSSE MICHEL CHARLES 3836 DUROCHER ST APT 11 198 CAMILLE GODARD BORDEAUX FRANCE	L L M 1 VI 9 9816
BANK SYLVIA PEARL 4815 QUEEN MARY RD MONTREAL QUE	B A 1 RE 8 7917	BARR DAVID MACKIE BRITTAIR HALL YANKLEEK HILL ONT	B SC AGR 1
BANKS GORDON WALTER 2014 DUTRISAC ST VILLE ST LAURENT QUE	B ENG MCH 4 RI 7 8527	BARR DONALD JOHN S BOX 1000 MACDONALD COLLEGE BOX 220 CAYUGA ONT	B SC AGR 4
BANNERMAN ROBERT SMITH DOUGLAS HALL 9 VESTA DR TORONTO 10 ONT	B ENG 1	BARRAN LESLIE ROHIT BRITTAIR HALL MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	B SC AGR 1
BARAN DANIEL 2863 MOLT ST MONTREAL 36 QUE	B A 4 RA 2 1320	BARRETT DOROTHY M ROYAL VICTORIA HOSPITAL R R 2 MALLORYTOWN ONT	B N 2
BARATH FRANK TIBOR 3910 LINTON AVE APT 4 MONTREAL 26 QUE	M SC 1 RE 3 0848	BARRETT MARY EILEEN 3782 DUPUIS AVE APT 18 MONTREAL QUE	B N 2 RE 7 6863
BARAUSKAS ALGIMANTAS A 7440 22ND AVE VILLE ST MICHEL QUE	B C L 1		
BARBER LYNN AUBREY 855 43TH AVE LACHINE QUE	B SC 1 ME 7 7094		
BARBOUR DAVID ALLEN 993 MACNAUGHTON RD TOWN OF MT ROYAL QUE	B SC 2 RE 7 2852		

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BARRETTE SERGE 3514 HUTCHISON ST APT 6 864 MANSEAU BLVD JOLIETTE QUE	B C L 1	BATES CORNELIA M 3480 ONTARIO AVE MTL 708 WINNIFRED SQ GLACE BAY N S	B SC P OT 3 VI 2 0044
BARRIE PATRICIA JEAN STEWART HALL 395 COLLEGE ST COBBOURD ONT	B SC H EC 3	BATIS THOMAS CLINTON 3660 DUROCHER ST APT 1 RD 1 SCOTIA 2 N Y USA	MD CM 2 AV 8 2626
BARRIE RONALD J 243 WESTCROFT RD BEAconsfield QUE	B ENG CIV 3 OX 5 9619	BATIST NANCY RUTH 5502 CLANRANALD AVE MONTREAL QUE	B SC 3 RE 3 3268
BARRIE WALLACE ALEXANDER 3581 UNIVERSITY ST MTL 24 DUNBAR AVE CORNWALL ONT	B ENG CIV 4 VI 9 1368	BATIUK EUGENE ANDREW 6606 21ST AVE MONTREAL 36 QUE	B ENG EL 4 RA 3 9683
BARRON JOHN ROBERT P O BOX 66 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	B SC AGR 3	BATULA LUBOV L STEWART HALL 210 SAURIOL AVE W AMUNTEIC QUE	2 TCHRS 2
BARROW RONALD M BRITAIN HALL 11 BELMONT TERR P O S TRINIDAD W I	B SC AGR 4	BAUGNIET PHILLIP HART 5537 COTE DES NEIGES APT 1 MONTREAL QUE	B ED RE 1 0511
BARRY JOHN DAVID 39 ROSEMOUNT AVE WESTMOUNT QUE	B A WE 5 8152	BAULU PATRICIA 3158 FENDALL ST MONTREAL 26 QUE	B SC 3 RE 8 7284
BARTELL MARVIN 3055 LINTON APT 9 MONTREAL QUE	B A 4 RE 3 5183	BAUM ALLAN 4942 JEAN BRILLANT ST MONTREAL QUE	B SC 1 RE 7 8490
BARTFELD YVONNE 780 BERTRAND VILLE ST LAURENT QUE	B ENG 1 RI 4 3166	BAUM ESTHER IDA 3976 MAPLEWOOD AVE MONTREAL QUE	B SC 4 RE 8 7671
BARTHA PETER FRANK 3630 DUROCHER ST APT 85 MONTREAL QUE	B A 3	BAUM MORRIE 3976 MAPLEWOOD AVE MONTREAL QUE	B SC 1 RE 8 7671
BARTHLOMEICZIK ANNE LORE 2 SENNAVILLE APT 7 STE ANNE DE BELLEVUE QUE 12370 OLIVIER ST MONTREAL 9 QUE	3 TCHRS	BAUMGARTEN GEORGE 752A QUERBES AVE MONTREAL QUE	B ENG EL 3 CR 6 3415
BARTOK MARIA 5409 GROVEHILL PL MONTREAL QUE	B A 3 HU 8 6476	BAUSLAUGH PHILIP GARY 79 SIMCOE AVE TOWN OF MT ROYAL QUE	B SC 1 RE 7 6249
BARTON RICHARD DONALD 1238 BERNARD ST W APT 7 OUTREMONT QUE	M SC 1 CR 7 7913	BAXTER CYNTHIA BEATRICE 3485 STANLEY ST APT 17 MONTREAL QUE	M A 3 AV 8 3766
BARTWICK PETER EDWARD 1310 PINE AVE MTL 415 E 58TH ST NEW YORK N Y USA	MD CM 2	BAXTER WILSIE SINCLAIR 68 BELVEDERE RD WESTMOUNT QUE	PARTIAL WE 2 3344
BARZA BEVERLEY SORIL 627 CARLETON AVE WESTMOUNT QUE	B A 1 HU 4 8321	BAYLEY ANN MARGARET 3566 UNIVERSITY ST APT 2 MONTREAL QUE	B A 1 VI 9 4037
BARZA MICHAEL JACOB 627 CARLETON AVE WESTMOUNT QUE	B SC 4 HU 4 8321	BAYNES RICHARD Q 3600 LINTON AVE APT 97 BOX 1343 ABBOTSFORD B C	D D S 2 RE 9 9678
BARZELL WINSTON ISAAC 6520 MOUNTAIN EIGHTS AVE MONTREAL QUE	B SC 2 RE 7 4286	BAYRAKAL MUSTAFA SADI ST ANNE S HOSPITAL ST ANNE DE BELLEVUE QUE	MED DIPL 1
BASTED ROBERT MERRIFIELD 3495 PEEL ST MONTREAL QUE	M SC 1	BEACH BERTRAM LEE 2400 BENNY CRES APT 304 P O BOX 166 FLASTER ROCK N S	PARTIAL
BASTET MICHEL THOMAS 60 52ND AVE LACHINE QUE	B SC 3 ME 7 3279	BEACH JOHN R MACDONALD COLLEGE 265 13TH AVE RICHELIEU QUE	B ED 2
BATA JUDITH EVE 5624 CANTERBURY AVE MONTREAL QUE	PH D 4 RE 9 2581	BEACH MARY 508 VICTORIA AVE WESTMOUNT QUE	B A 1 HU 6 7146
BATALION HYMAN 4938 CARLTON AVE MONTREAL QUE	MD CM 3 RE 3 4184	BEAL ROBERT STEWART 196 CHATEAUGUAY ST HUNTINGDON QUE	PARTIAL
BATCHELOR GEORGE H 3466 MCTAVISH ST MTL 107 NORMANDY DR MONTREAL QUE	MD CM 3 AV 8 9533	BEAN GERARD WENTWORTH WILSON HALL RADNOR RD SHELLY BAY BERMUDA	B SC 4 VI 4 0624
		BEANE JOEL PHILLIP 48705 HENRI JULIEN AVE MONTREAL QUE	B SC 1 AV 8 9859

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NAME ADDRESS	COURSE & YEAR TEL. NO.	NAME ADDRESS	COURSE & YEAR TEL. NO.
BEATON MARGARET J 94 BROOKHAVEN AVE DORVAL QUE	2 TCHRS ME 1 8684	BECKERMANN MICHAEL FRANZ 1517 MCGREGOR ST MTL HAMBURG FU BROMBEERWEG 50 GERMANY	B ENG MCH 4
BEATT JAMES GARNET 750 54TH AVE LACHINE QUE	2 TCHRS ME 7 2750	BEDER DOUGLAS STANLEY 7522 QUELPH RD COTE ST LUC QUE	B SC 3 HU 1 2626
BEATTY ERROL BRUCE 18 WINNIPEG AVE PORT ARTHUR ONT	B ED P CD 1	BEDFORD FREDERICK WARREN 170 MONTCALM BLVD ST JEAN QUE	PH E 2
BEATTY ROBERT HAROLD 3473 UNIVERSITY ST MTL 30 MAYFAIR DR LONDON ONT	PH D 3	BEDFORD NORMAN S 4755 ST KEVIN AVE APT 4 MONTREAL QUE	B ENG CIV 5
BEATTY SANDFORD WILLIAM MACDONALD COLLEGE 99 WALMELEY BLVD TORONTO ONT	B SC AGR 2	BEDFORD JONES PETER C 130 ALLARD AVE DORVAL QUE	M SC 1 ME 1 1740
BEAUCHAMP EMMY E BOX 138 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	B SC H EC 4	BEER MIA 6707 DE VIMY AVE MONTREAL QUE	B SC P OT 1 RE 9 0134
BEAUCHAMP ERIC GERALD BOX 138 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	B SC AGR 4	BEESEY JOHN FREEMAN 6889 SHERBROOKE ST W APT 7 MONTREAL WEST QUE	B SC 2 HU 8 1544
BEAUCHEMIN JOSEPH PAUL E 5916 ESPLANADE AVE MONTREAL QUE	B ENG 2 CR 1 1465	BEER ANNE CHARLOTTE 4581 KENSINGTON AVE MONTREAL 28 QUE	B A 2 HU 6 2352
BEAUDOIN GERARD 3517 HUTCHISON ST MTL 39 BELLEVUE ST DRUMMONDVILLE QUE	B ENG 2 VI 9 0109	BEHRMANN JOHN A 4090 ROYAL AVE MTL 370 CHESTNUT RIDGE RD WOODCLIFF LAKE N J USA	D D S 4 HU 1 1156
BEAUDOIN JOSEPH BERTRAND 1037 ST JOSEPH BLVD MONTREAL QUE	B CL 4 AV 8 6916	BEINHAKER EZRA JACK 4895 FULTON ST MONTREAL QUE	B COM 1 RE 7 3308
BEAUDRY PIERRE H 1481 ST JOSEPH BLVD E MONTREAL 34 QUE	PH D 1 LA 3 7655	BEINHAKER PHILIP HOWARD 4560 CIRCLE RD MONTREAL QUE	B ARCH 2 RE 7 1050
BEAULIEU JOSEPH ADRIEN C 2285 WILSON AVE MONTREAL QUE	B SC 2 HU 9 6124	BEIQUE MICHAEL GEORGE 3656 DUROCHER ST APT 2 DONNACONA QUE	B A 4 AV 8 2680
BEAULIEU RODOLPHE 3010 GOYER ST APT 17 MONTREAL QUE	MED DIPL 3 RE 9 1821	BEITEL ARTHUR 5839 DECARIE BLVD MONTREAL QUE	B ARCH 2 RE 3 7683
BEAUREGARD MARC R 3790 VENDOME AVE MONTREAL QUE	B CL 4 HU 1 9896	BEKHOR EDWARD 5510 ROBINSON APT 203 COTE ST LUC QUE	B ENG 2 HU 8 4988
BECERRA ALEJANDRA 3610 DUROCHER ST APT 15 MONTREAL QUE	M SC 1 VI 5 3963	BELANGER ANDRE JACQUES 19 GLENCOE AVE MONTREAL 8 QUE	M A 1 RE 8 7227
BECHERVAISE LYNDEN O MACDONALD COLLEGE NEW CARLISLE QUE	P E DIP 2	BELANGER BENOIT J H 1420 PINE AVE W APT 3 MONTREAL QUE	M A 1 AV 8 6836
BECK IVAN T 2450 MONTCLAIR AVE MONTREAL QUE	PH D 3 HU 8 1801	BELANGER MICHEL H 21 BELLEVUE AVE WESTMOUNT QUE	B ENG CIV 5 WE 3 6123
BECK JENNIFER LUCY 578 LANSDOWNE AVE WESTMOUNT QUE	B A 1 HU 6 6184	BELBIN MARY E STEWART HALL 342 10TH ST SHAWINIGAN QUE	B ED 2
BECK JOHN MICHAEL 7425 CANORA RD APT 811 MONTREAL 16 QUE	B ENG 2 RE 3 7752	BELCOURT SUSAN ANNE ROYAL VICTORIA COLLEGE 125 WILLINGDON RD ROCKCLIFFE PARK OTTAWA ONT	B A 3 VI 9 0120
BECKER ALEXANDER 452 BALL AVE MONTREAL 15 QUE	M SC 2 CR 6 7870	BELINKIE ISRAEL RUBIN 5380 JEANNE MANCE ST MONTREAL QUE	B SC 1 CR 1 6009
BECKER DONNIE MIRIAM 4931 PONSARD AVE MONTREAL QUE	B A 4 RE 8 7469	BELORAVE DORINE A LAIRD HALL 137 BELMONT CIRCULAR RD PORT OF SPAIN TRINIDAD W I	B SC H EC 2
BECKER ROBERT EDMOND 3525 DUROCHER ST APT 89 268 DWIGHT ST JERSEY CITY N J USA	MD CM 4 AV 5 2870	BELITSKY MORTON MORRIS 1126 LAJOIE APT 9 OUTREMONT QUE	B SC 4 CR 9 0690
BECKER WERNER F K 7480 MOUNTAIN SIGHTS AVE APT 208 MONTREAL 9 QUE	MED DIPL 4 RE 9 6205	BELITSKY PHILIP 4950 PLAMONDON AVE MONTREAL QUE	MD CM 1

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BELITZKY DONNA 4740 CARLTON AVE MONTREAL QUE	B A 2 RE 1 6857	BENSON LEONARD HELMAN 1018 SHERBROOKE ST W MTL 10 WILDWOOD DR GREAT NECK N Y USA	D D S 1 VI 9 5931
BELL BARBARA JOANNE 570 MILTON ST APT 14 4330 JERICHO CIRCLE VANCOUVER B C	B L S 1 MTL VI 4 1675	BENTKOWSKI RAYMOND JAMES 520 MARLATT ST VILLE ST LAURENT QUE	B SC 4 RI 4 3635
BELL DONALD E 3655 STE FAMILLE APT 83 R R 4 PERTH ONT	D D S 4 AV 8 2854	BENTLEY KENNETH C 586 SMART AVE COTE ST LUC QUE	MD CM 2 HU 9 1689
BELL JOEL IAN 233 SHERATON DR MONTREAL WEST QUE	B A 2 HU 4 7922	BEN ABRAM 595 BLOOMFIELD AVE APT 4 OUTREMONT QUE	B SC 2 CR 6 1693
BELL MONA DORIS 6802 LEGARE ST MONTREAL QUE	3 TCHRS RE 3 5896	BERCEL EUGENE 2039 MCGILL COLLEGE AVE MONTREAL QUE	B ENG 2 AV 8 7337
BELL THOMAS EDWARD J 56 CORNWALL AVE TOWN OF MT ROYAL QUE	B ENG 1 RE 8 0681	BERCOVITCH DAVID LEANORD 5020 GROSVENOR AVE MONTREAL QUE	B ENG EL 4 RE 9 4054
BELL THOMAS STEWART 7 MORRISON AVE TOWN OF MT ROYAL QUE	B SC 2 RE 8 0255	BERCOVITCH MONA RHEA 164 SPRINGGROVE CRES MONTREAL QUE	B A 4 CR 4 0420
BELL WALTER GRAEME 3501 LORNE AVE MTL SOUTHLEIGH SOUTHLEIGH AVE COVENTRY WARWICKS ENGLAND	B A 2	BERCOVITCH SAMUEL 5719 WHITEHORNE AVE COTE ST LUC QUE	B SC 4 HU 8 4597
BELLAM ERNEST JAY 5190 GRAND BLVD MONTREAL QUE	B SC AGR 1 HU 6 4415	BERCUSON MARGERY FRANCES 6207 MACDONALD AVE MONTREAL QUE	B A 2 RE 8 4654
BELLEFEUR GILLES N 8574 CHATEAUBRIAND MONTREAL QUE	B ENG CM 5 DU 7 7288	BERCUSON JOSEPH 545 DAVAR AVE MONTREAL QUE	B C L 2 CR 2 9073
BELLEMARE KENNETH H 885 CHARLEVOIX ST MONTREAL QUE	2 TCHRS WE 7 6420	BERENYI YULIKA 4961 SARCLAY AVE MONTREAL QUE	B A 3 RE 1 5594
BENAIM SHIRLEY Y 1155 SECOND AVE VERDUN QUE	MD CM 3 PO 9 3268	BERES JUDITH ORAM 4501 DECARIE BLVD MONTREAL 29 QUE	B SC 4 HU 8 5696
BENARD DE BAST JEAN L H 500 WOOD AVE MONTREAL QUE	B ENG 2 WE 2 5337	BERG IAN STANLEY MTL CHILDREN'S HOSPITAL 14 AUERTON AVE LEEDS 17 ENGLAND	MED DIPL 3
BENIMA BENNO P O BOX 175 MONTREAL 6 QUE	B SC 4 VI 9 8780	BERGER BENNY 3971 ST URBAIN ST MONTREAL QUE	B C L 3 VI 2 7547
BENITAH JEAN CLAUDE 640 BLOOMFIELD AVE MONTREAL QUE	B ENG 1 CR 7 0313	BERGER BEVERLY BRENDA STEWART HALL 86 THEORET ST VILLE ST LAURENT QUE	3 TCHRS
BENJAMIN DANIEL HENRY 5057 BORDEN AVE MONTREAL 29 QUE	B SC 1 HU 1 9180	BERGER JASON MILTON 3641 OXENDEN AVE MTL 130 LUCERNE ST DORCHESTER MASS USA	B A 2 VI 5 7893
BENNETT ANN ELIZABETH 4304 MONTROSE AVE WESTMOUNT QUE	B SC 2 WE 7 1385	BERGER PAULA MAE 4845 ROBLYN AVE MONTREAL 29 QUE	B SC 1 RE 7 5328
BENNETT MICHAEL FRANCIS ROYAL VICTORIA HOSPITAL 687 PINE AVE W MONTREAL QUE	MED DIPL 1	BERGERON IVAN PIERRE M 2147 VENDOME AVE MONTREAL QUE	B ENG COM 5 HU 8 0546
BENNETT SUSAN ELIZABETH 600 CHESTER RD BEAUREPAIRE QUE	B SC H EC 1 OX 5 4736	BERGMAN RALPH 737 ROCKLAND AVE MONTREAL 8 QUE	B ENG 1 CR 1 5041
BENNETTE RICHARD JAMES 22 DE CASSON RD WESTMOUNT QUE	B C L 2 WE 3 3936	BERGSTEINSON ELLEN OLIVE ROYAL VICTORIA COLLEGE 326 PARKWOOD AVE BUFFALO 23 N Y USA	B COM 4 VI 2 0334
BENNE CELLIA AUGUSTA 2035 ST MARK ST APT 16 134 MCGILL ST TRENTON ONT	GRAD DIP 1 WE 5 7995	BERHANE TAFARI 3515 UNIVERSITY ST APT 8 MTL ATO REZENE BERHANE STATE PROPERTY ASHARA ERITREA	B C L 2 AV 8 1966
BENO MEIR 203 PLATEAU MONTREAL QUE	M A 1 VI 9 8443	BERKE CARL STEPHEN 5541 BRADFORD PL MONTREAL 26 QUE	B SC 3 RE 7 2241
BENOIT JOHN EUGENE JR 88 TULIP AVE DORVAL QUE	B ENG EL 3 WE 1 6174		

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BERKE NANCY 4613 NINTH ST L ABOARD A FLOUFFE QUE	B SC MU 1 3592	BERRY LEONARD MICHAEL 3605 UNIVERSITY ST MTL 412 BROOKDALE AVE TORONTO 12 ONT	B COM 3 AV 8 0643
BERKES THOMAS JOHN 1659 ST CATHERINE ST W MONTREAL QUE	B ARCH 4 WE 3 6589	BERRY LOUIS HUNTON JR 1441 DRUMMOND ST 17 WILLOWMERE AVE MONTCLAIC N J USA	PARTIAL
BERKOFKY LORNA LOUISE STEWART HALL 4536 EARNSCLIFFE AVE MONTREAL QUE	B SC AGR 3	BERTALOT RENZO 6715 12TH AVE MONTREAL 36 QUE	PH D 2 RA 1 9190
BERLIN IRMA BARBARA 2162 NANTEL ST MONTREAL QUE	M SW 2 RI 8 7190	BERTHAUME BERNARD PAUL 4065 MARCIL AVE MONTREAL QUE	B SC 1 HU 4 5727
BERMINGHAM MICHAEL JOHN F 2575 CONTRECOEUR ST MONTREAL QUE	B ENG 2 CL 5 2271	BERTOK ENDRE IMRE P O BOX 149 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	M SC 2
BERNAQUEZ RAYMOND 300 SHERBROOKE ST W MTL 253 ST GEORGE ST CAP DE LA MADELEINE QUE	B ENG MCH 5	BERTRAM ELIZABETH A ROYAL VICTORIA COLLEGE 31 VICTORIA ST DUNDAS ONT	B A 1 VI 2 0597
BERNARD CHARLES KEITH 59 CIRCLE RD ILE BICRAS QUE	B ENG MCH 4 MU 9 0458	BERTRAND DEAN MICHAEL 71 FIFTH AVE PTE CLAIRE QUE	B ENG 1 OX 5 5102
BERNARD EARL STAFFORD 3466 SHUTER ST MTL 8 TEXT LANE KINGSTON JAMAICA W I	B SC 2 VI 4 3860	BERTRAND PAUL DOUGLAS R 172 CHARLES ST BELLEVILLE ONT	B A 1
BERNARD LOUIS ANDRE 5 LEGAULT ST STE ANNE DE BELLEVUE QUE 267 ST ANTOINE ST GRANBY QUE	B SC AGR 2	BERTRAND RICHARD 762 MOFFAT AVE VERDUN QUE	B ENG 1 PO 7 5556
BERNARD MARIE YOLANDE 8456 CASGRAIN ST MONTREAL QUE	B A 1 DU 7 2840	BERWICK JAMES MCKAY 528 ARGYLE AVE MONTREAL QUE	B ENG 2 WE 5 2858
BERNARDIN SUZANNE L STEWART HALL 23 SPRINGGROVE CRES OUTREMONT QUE	B ED PED 6	BERZINS ILZE 6743 COTE ST LUC RD APT 3 MONTREAL QUE	B A 1 HU 1 5920
BERNICK DIANE VICTORIA ROYAL VICTORIA COLLEGE 29 COMMERCIAL ST GLACE BAY N S	B SC 3 VI 2 0598	BESEL LORINE 630 PRINCE ARTHUR ST W APT 5 MTL 51 GOMEZ ST WINNIPEG MAN	B N 2 VI 5 9472
BERNICK HARRIETTE R ROYAL VICTORIA COLLEGE 49 HAVELOCK ST AMHERST N S	B SC N 1 VI 2 0571	BESNER MORTON H 4910 MAPLEWOOD AVE APT 11 MONTREAL QUE	B CL 4 RE 3 5170
BERNSTEIN AARON D 6275 NORTHCREST PL APT 721 MONTREAL QUE	MD CM 3 RE 8 2550	BETHUNE BEVERLY JEAN 82 PARDO AVE PTE CLAIRE QUE	2 TCHRS 2 OX 7 1714
BERNSTEIN BRAM HENRY 5180 HAMPTON AVE MONTREAL QUE	B A 4 HU 6 8189	BEVOLET CLAUDE HECTOR 2235 PRUD HOMME AVE APT 12 MONTREAL 28 QUE	B ENG CH 5 HU 9 1756
BERNSTEIN GERALD JOSEPH 34 LAVIOLLETTE AVE OUTREMONT QUE	B COM 1 CR 6 2212	BEUSCH ROLAND LEONHARD 3584 SHUTER ST MTL BEUSCH STINOS BUCHS S G SWITZERLAND	B SC 2 VI 4 1631
BERNSTEIN HEATHER RITA 46 FERRAULT ST STE ANNE DE BELLEVUE QUE 4864 KINGSTON AVE MONTREAL QUE	2 TCHRS 1	BEVINGTON BERYL MURIEL MACDONALD COLLEGE 12706 108TH AVE EDMONTON ALTA	B SC H EC 2
BERNSTEIN JERROLD 206 WILLOWDALE AVE MONTREAL 26 QUE	MD CM 2 RE 8 1556	BEVINGTON DAVID RONALD H 3426 STANLEY ST MTL C O E R BEVINGTON 40 SECRETARIAT SUVA FIJI	B SC 2
BERNSTEIN LINDA 5562 ALPINE AVE COTE ST LUC QUE	B SC POT 1 HU 4 0224	BEWER LORE IDA MARGARETHE 3422 STANLEY ST MTL BOX 744 VIRIDEN MANITOBA	B L S 1 VI 9 0526
BERNSTEIN SYLVIA 5885 DUROCHER AVE MONTREAL QUE	B A 1 CR 6 0630	BEYER WERNER HANS 3280 GOVER ST MTL LANCASTER RD WHITEFIELD N H USA	B SC 3
BERRILL ELSILYN JANE 3521 UNIVERSITY ST MONTREAL QUE	B SC POT 2 VI 5 6933	BHARGAVA SUSHAB 3424 DRUMMOND ST MTL 613 PESCOD ST CORNWALL ONT	B ENG MCH 4 AV 8 4672
BERRY CAMERON GEORGE 4625 DRAPER AVE MONTREAL QUE	B SC 3 HU 6 3575		

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BADGILIGN GABRIEL M 3473 ST FAMILLE ST MTL P O BOX 1822 ADDIS ABABA ETHIOPIA	B C L 1 VI 4 4085	BINDER JUDITH ZELDA 33 ST GEORGES ST STE ANNE DE BELLEVUE QUE 4985 MACKENZIE ST MONTREAL QUE	3 TCHRS
BISBERMAN BARRY 2296 FULTON RD MONTREAL 16 QUE	B C L 1 RE 8 4608	BINEK SYLVESTER J 4542 DECARIE BLVD MONTREAL 29 QUE	B ENG MCH 3 HU 8 0866
BISLE KATHERINE 758 SHERBROOKE ST W APT 11 MONTREAL QUE	B A 2 VI 9 5445	BING RONALD MYRON 2220 FULTON RD TOWN OF MT ROYAL QUE	B ENG 1 RE 8 8118
BICK JOAN STEPHANIE 4993 JEAN BRILLANT AVE MONTREAL 29 QUE	B A 1 RE 8 8986	BINHAMMER HELMUT HERBERT 2100 FORT ST APT 409 MTL 20 BARRIE ST KINGSTON ONT	PH D 3 WE 2 6483
BIDA LARISSA 1172 MACKAY ST APT 88 MONTREAL QUE	M L S 1 WE 3 3233	BINMORE DAVID ALEXANDER 500 PRINCE ALBERT AVE WESTMOUNT QUE	B ENG 2 HU 4 5220
BIDDLE JOHN SIMPSON 7478 OUTREMONT AVE MONTREAL 15 QUE	B ENG EL 3 CR 9 2431	BINNIE WILLIAM IAN C 3605 UNIVERSITY ST MTL 6 MACKENZIE AVE TORONTO 5 ONT	B A 4 AV 8 0643
BIDNER SOFIA ELISE R STOCKFARM MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	B TCHRS 1	BINNE JEAN NERIESSA 3330 RIDGEWOOD AVE APT 53 MTL KERR CRESCENT MONTGO BAY JAMAICA B W I	GRAD DIP 1 RE 9 3854
BIEDERMANN MARY MARGARET 318 GENEVA CRES TOWN OF MT ROYAL QUE	B COM 4 RE 8 4836	BIRBARA CHARLES ALLEN DOUGLAS HALL 115 ORIENT ST WORCESTER 4 MASS USA	MD CM 2
BIER LEON 6053 WILDERTON CRES MONTREAL QUE	B ENG 2 RE 8 7259	BIRCH DONNA GAIL 3638 DUROCHER ST APT 4 MONTREAL 18 QUE	B SC M EC 4
BIERBRIER BENNY 8031 QUELPH RD COTE ST LUC QUE	B SC 3	BIRCHENROUGH ARTHUR JAMES 5733 DES ERABLES AVE MONTREAL 36 QUE	B ENG EL 4 CR 6 8801
BIERBRIER EDWARD GERALD 931 DUNLOP AVE OUTREMONT QUE	B COM 3 RE 7 1381	BIRCHWOOD KENNETH MICHAEL 5255 WALKLEY AVE APT 14 MTL 16 L EPINET ST MORVANT TRINIDAD B W I	B SC 4 HU 8 7859
BIERBRIER PEARL ESTELLE 5778 PALMER AVE COTE ST LUC QUE	GRAD DIP 1 HU 8 3375	BIRKS ROBERT W M 15 KILBURN CRES MONTREAL 29 QUE	B A 2 HU 1 4552
BIERMAN CLAUDIA J 591 POWELL AVE TOWN OF MT ROYAL QUE	B SC 1 RE 7 0843	BIRKS SALLY ANN 612 GROSVENOR AVE WESTMOUNT QUE	B A 1 HU 1 3621
BIERMAN ERIC 591 POWELL AVE TOWN OF MT ROYAL QUE	B ENG PHY 3 RE 7 0843	BIRNBAUM LEANOR NOLA 4863 FULTON AVE MONTREAL QUE	B A 1 RE 7 4054
BIGELOW BERNICE ANN C MACDONALD COLLEGE CALUMET QUE	B TCHRS 1	BIRNBAUM ROBERT 2475 VAN HORNE AVE MONTREAL QUE	B ENG 2 RE 7 9482
BIGGAR JOAN EVA JANET 885 WESTMINSTER AVE N MONTREAL WEST QUE	B A 3 HU 1 6880	BIRNSOM LIONEL 5397 GROVENHILL PL MONTREAL QUE	B ENG EL 4 HU 4 7877
BIGGS MARJORIE AGATHA 3631 LORNE CRES MTL 388 UPPER ILLETON RD KINGSTON JAMAICA B W I	B COM 2 VI 2 0690	BIRNZWEIG OLGA 4966 JEAN BRILLANT ST MONTREAL QUE	M S W 1 RE 1 0833
BIKASOROFF NATASHA 3479 SHUTER ST APT 3 MONTREAL QUE	B SC 2 VI 2 3049	BIROL HAYRI 4660 DUPUIS AVE MONTREAL QUE	B ENG COM 5 RE 8 0433
BILEPSKY RALPH 4693 MAPLEWOOD AVE MONTREAL QUE	MD CM 3 RE 7 8050	BIRON PIERRE 1462 ST JOSEPH BLVD MONTREAL 34 QUE	M SC 2 LA 2 1736
BILLHAM JOHN A HENRY 2151 LINCOLN AVE MONTREAL QUE	B ENG CH 5 WE 5 7318	BIRTLES BARBARA JOAN STEWART HALL 5400 BANNANTYNE AVE VERDUM QUE	B TCHRS 1
BILLINGSLEY ANDREW GORDON WILSON HALL 95 REMFREW AVE OTTAWA ONT	B SC 4 VI 4 0624	BISHARA EDWARD 5810 WILBERTON AVE MONTREAL QUE	B SC 3 RE 3 6651
BLOUET FERNAND 2940 BARCLAY AVE APT 8 MONTREAL 36 QUE	PH D 2 RE 9 7910		
BLOUET RONALD R 3466 MCTAVISH ST MTL 95 WAVERLY ST PROVIDENCE R I USA	MD CM 3 AV 8 9533		

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BISHOP DON LEWIS DOUGLAS HALL 36 CHURCHILL AVE PALO ALTO CALIF USA	MD CM 1 VI 4 0977	BLAIR JOHN ANTHONY 56 ELMWOOD AVE MTL 72 KENILWORTH ST OTTAWA 3 ONT	B A 2
BISSENETTE BERNARD A J 206 DOLLIER ST ST JOHNS QUE	B ENG 1	BLAIR ROBERT 6766 ST VALLIER ST MONTREAL QUE	S T M 1 CR 2 7787
BITHER CARL R 5170 WESTHILL AVE APT 9 R F D 4 HOULTON MAINE USA	D D S 4 MU 9 5984	BLAIS JOSEPH J PIERRE 4846 ST LAWRENCE BLVD MONTREAL QUE	B SC 2 VI 9 3313
BITTAR LIA RUTT 3583 UNIVERSITY ST MONTREAL QUE	B A 4	BLAJCHMAN HYMAN 5251 VICTORIA AVE APT 4 MONTREAL QUE	B ENG COM 5 RE 3 9497
BITTAR NEVILLE 3583 UNIVERSITY ST MTL P O BOX 1791 BEIRUT LEBANON	MD CM 2	BLAJCHMAN MORRIS AARON 5251 VICTORIA AVE APT 4 MONTREAL QUE	B SC 4 RE 3 9497
BLACKFORD JOHN 517 ROSLYN AVE MONTREAL QUE	M SC 1 WE 7 1908	BLAKE AGNES LOUISE 2005 ST MARK ST MTL 3889 NORTHCLIFFE AVE MONTREAL QUE	PARTIAL WE 3 7381
BLACK DOUGLAS EDGAR A 1441 DRUMMOND ST MTL 2348 OSLER ST REGINA SASK	D D S 1	BLAKE DOROTHY JOSEPHINE 3513 STE FAMILIE MTL SHENTON FARM BOGWALE P O JAMAICA B W I	B A 4 VI 9 0644
BLACK EVAN GLENHOLME 243 KENSINGTON AVE WESTMOUNT QUE	B SC 1 WE 7 2436	BLAKE GEORGE PATRICK H 1465 POIRIER ST VILLE ST LAURENT QUE	MUS B 1 RI 4 6050
BLACK EVELYN JANE ROYAL VICTORIA COLLEGE WHITE SANDS RD PAGET BERMUDA	B SC 1 VI 9 0993	BLAKE LIONEL F T 3478 MCTAVISH ST MONTREAL QUE	B SC 4 VI 2 7412
BLACK JANET McDONALD 1558 PINE AVE W MTL MIDDLE SACKVILLE N B	M S W 1 WE 5 4725	BLAKE ROBERT LLOYD GEORGE 279 6TH AVE ST EUSTACHE SUR LE LAC QUE	B ENG MI 4
BLACK MARTIN JACOB 4338 MELROSE AVE MONTREAL 28 QUE	B SC 1 MU 4 7342	BLAKE VERA MINERVA 2069 JEANNE MANCE ST MTL 80 WALTHAM PARK RD KINGSTON JAMAICA W I	B L S 1
BLACK NORMAN JOHN 6779 35TH AVE MONTREAL 36 QUE	B A 3 RA 2 9560	BLAKER RODERICK B 479A PRINCE ARTHUR ST W MONTREAL QUE	B C L 2 VI 9 7131
BLACK RICHARD NEIL 78 BRENTWOOD RD BEACONSFIELD QUE	2 CHRS OX 5 9855	BLANAR JAROSLVA VLASTA B 2982 SOISEONS AVE MONTREAL 26 QUE	B SC 2 RE 3 4467
BLACK WARREN ALAN 4568 ROYAL AVE MONTREAL QUE	B A 2 MU 4 2534	BLANAR PETER ALFRED 2982 SOISEONS AVE MONTREAL 26 QUE	B SC 1 RE 3 4467
BLACKBURN DOROTHY E MACDONALD COLLEGE R R 1 POLTIMORE QUE	2 CHRS 2	BLANCHARD BARBARA JOANNE 4350 PRINCE OF WALES AVE MONTREAL 28 QUE	B SC 2 MU 1 9413
BLACKIE MARILYN C 3480 ONTARIO AVE MTL 28 HILLCREST DR LANCASTER N B	B SC P OT 2 VI 2 0044	BLANCHARD BERNARD E 9445 CHATEAUBRIAND ST MONTREAL QUE	B C L 4 DU 9 5536
BLACKMAN DOREEN 4625 MAPLEWOOD AVE MONTREAL QUE	B A 3 RE 8 6835	BLANCHARD PATRICIA L 1009 SHERBROOKE ST W MTL 632 PORTSMOUTH AVE KINGSTON ONT	B SC P OT 2
BLACKWOOD EGERTON GEORGE 3708 JEANNE MANCE ST MTL WALDERSTON P O JAMAICA W I	B SC 4 VI 5 2693	BLANK ARTHUR MELVYN 5637 WAVERLEY ST MONTREAL 14 QUE	B SC 1 CR 9 6580
BLAISKIE MARY LOUISE 2020 CRESCENT ST APT 201 MONTREAL QUE	MUS B 4 VI 4 9189	BLANSHAY LIONEL JUDAH 4946 GROSVEENOR AVE MONTREAL QUE	B A 3 MU 1 9476
BLAICKLOCK WILLIAM MUSGRAV 1425 ATHLONE RD TOWN OF MT ROYAL QUE	B ENG MCH 5 RE 3 8903	BLATNICKY MILES STEVEN 1620 CARDINAL ST VILLE ST LAURENT QUE	B ENG 2 RI 4 5036
BLAIN ADELLA MARGARET ROYAL VICTORIA COLLEGE 130 PARK PL SAULT STE MARIE MICH USA	B A 2 VI 2 0113	BLATT HARVEY MICHAEL 5440 LEGARE MONTREAL QUE	B COM 4 RE 8 8270
BLAIR ALAN DAVID 30 PARKDALE AVE PTE CLAIRE QUE	B ENG 1 OX 5 4564	BLATT RICHARD ALLAN 5440 LEGARE MONTREAL QUE	B A 1 RE 8 8270
		BLATT SAMUEL 4965 COTE ST CATHERINE MONTREAL 29 QUE	B ENG EL 4 RE 3 4547

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BLAUER MARVIN 5214 MOUNTAIN SIGHTS AVE MONTREAL QUE	B ENG 2 HU 6 7654	BLUME WARREN T 2065 RUE CHOMEDEY APT 10 MONTREAL QUE	MD CM 2
BLAUSTEIN LILIANE ARLETTE 3297 GOVER ST MONTREAL QUE	B SC 1 RE 7 5831	BLUMENSTEIN LEONARD M 4815 QUEEN MARY RD MONTREAL QUE	B A 2 RE 7 2233
BLAYLOCK SUSAN JENNIFER MONTEE MONK 1LE BIZARD QUE	B A 3 NA 6 3396	BLUMER HERBERT M 6607 COTE ST LUC RD APT 104 MONTREAL QUE	M SC 1 HU 9 8886
BLEICHERT ALFRED MAX R R 1 LAPRAIRIE QUE	B SC 3 NE 3 2150	BLUMER JOSEPH S 5053 PONSARD AVE MONTREAL QUE	B C L 2 HU 1 5538
BLEJER MEYTOR 4550 CEDAR AVE MTL APARTADO AEREO 339 BARRANQUILLA COLOMBIA S A	MED DIPL WE 7 6011	BLUNDELL ANNE CAROL 5717 N D Q AVE MONTREAL QUE	B A 1 HU 1 4575
BLEVINS MARGARET JOAN 4558 CORDONATION AVE MONTREAL QUE	B A 2 HU 4 0479	BLUNDELL JOAN THERESA M 5717 N D Q AVE MONTREAL QUE	B COM 3 HU 1 4575
BLICKER STANLEY S 4855 DORNAL AVE MONTREAL QUE	MD CM 1 RE 8 6021	BLUNT PETER REXFORD 40 DUFFERIN RD HAMPSTEAD QUE	B SC 4 HU 1 2232
BLINDER SERGE M 5329 DECARIE BLVD APT 2 MONTREAL QUE	B ENG 2 HU 1 3939	BLUSTEIN JOSEPH E 4450 BEACONSFIELD AVE MONTREAL 28 QUE	MD CM 3 HU 4 1940
BLISS TIMOTHY VIVIAN P DOUGLAS HALL 18 RICHELIEU PL MONTREAL 25 QUE	B SC 2	BLUSTEIN VENA HELEN LAIRD HALL 4450 BEACONSFIELD AVE MONTREAL QUE	3 TCMS 1
BLITT RITA 5380 BRODEUR AVE MONTREAL 28 QUE	B A 3 HU 4 9550	BOAKE JAMES WILFRID 382 ROSLYN AVE WESTMOUNT QUE	B A 3 WE 3 7116
BLIZZARD ALAN CYRIL 266 GREENFIELD AVE GREENFIELD PARK QUE	B SC 2 OR 1 2035	BOARD WENDA FLORENCE MACDONALD COLLEGE 168 THIRD ST GREENFIELD PARK QUE	2 TCMS 1
BLOCH GERALD 4170 ISABELLA AVE MONTREAL QUE	B COM 1 RE 8 5556	BOBALJIK JOHN 258 SHERBROOKE ST W MTL 11917 TECUMSEH RD TECUMSEH ONT	B ENG 1 VI 9 0714
BLOND DAVID HARRY 4877 CIRCLE RD MONTREAL QUE	B A 1 HU 4 6869	BOBKOWICZ ANDREW JOHN 364 REDFERN AVE WESTMOUNT QUE	PH D 2 WE 5 3443
BLOND JOYCE 2168 SHERBROOKE ST W APT 7 MONTREAL QUE	B C L 2 WE 7 2029	BOBROW PHILIP DAVID 3780 ST KEVINS AVE APT 3 MONTREAL QUE	B ARCH 6 RE 7 0347
BLONBIN LOUIS P WILSON HALL NICOLET QUE	B ENG 2	BOCK PAULE 3605 RIDGEWOOD AVE APT 500 MONTREAL QUE	MD CM 1 RE 1 6559
BLOOM THOMAS 5176 BOURRET AVE MONTREAL 29 QUE	B SC 2 RE 8 1366	BOBANESE RICHARD STEVEN WILSON HALL 198 VICTORY BLVD STATEN ISLAND 1 NEW YORK USA	B SC 1 VI 4 0624
BLOOME FRANCINE 464 GLENGARRY AVE TOWN OF MT ROYAL QUE	B A 2 RE 7 8150	BOEKO JACK LEWIS 4780 CARLTON APT 36 MONTREAL QUE	M S W 1 RE 9 3905
BLOOMFIELD DAVID AARON 768 PRATT AVE OUTREMONT QUE	B ENG CH 4 RE 8 9064	BOGANTE MARTIN DONALD 4252 KINGSTON AVE MONTREAL QUE	B C L 1 HU 4 8601
BLOOMFIELD LINDA JOAN ROYAL VICTORIA COLLEGE 464 MAYFAIR AVE OTTAWA 3 ONT	B A 1 VI 9 0030	BOGDANOFF DAVID WELLS 33 NORMANDY RD BAIE D'URFEE QUE	B ENG 3
BLOOMFIELD RHONA SHARON 768 PRATT AVE OUTREMONT QUE	B A 1 RE 8 9064	BOGIE CHARLES WAYNE MACDONALD COLLEGE R R 1 MELBOURNE QUE	B SC AGR 1
BLOSTEIN RHODA 5750 DARLINGTON AVE MONTREAL QUE	PH D 4 RE 3 9569	BOGO NORMAN HARVEY 7509 QUERRES AVE OUTREMONT QUE	B SC 3 CR 7 0042
BLOVIN PATRICK ANDRE M 480 COTE ST ANTOINE RD WESTMOUNT QUE	B ARCH 2 WE 5 9015	BOGOCH RONALD 8601 CLARKHALL AVE MONTREAL QUE	B ENG 2 RE 7 7481
BLUM SAWL CHARLES 4657 ESPLANADE AVE MONTREAL QUE	PH D 3 VI 4 8791		

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BOGUE JOHN E DOUGLAS HALL 761 ACACIA RD ROCKCLIFFE PARK OTTAWA ONT	B COM 8	BOND ROBERTA 486 PINE AVE W APT 2 MTL 48 NEWCASTLE ST DARTMOUTH N S	B N 2 VI 5 1557
BOHM FRANK ALFRED 60 STRATHMORE BLVD DORVAL QUEBEC	B ENG 2 ME 1 6607	BONDAR RICHARD J L WILSON HALL 57 ROBE AVE GREAT NECK N Y USA	B SC 2 VI 4 0624
BOHM JANE 1826 SHERBROOKE ST W APT 304 MONTREAL QUE	PARTIAL WE 7 1605	BONE CHRISTINE VICTORIA 97 STRATFORD RD HAMPSTEAD QUE	B A 2 MU 6 1895
BOHME DIETHARD KURT 35 FRANKLIN AVE TOWN OF MT ROYAL QUE	B SC 2 RE 3 2632	BONGERS HENRY T 3769 FIELDING AVE MTL 4543 OLD ORCHARD AVE MONTREAL QUE	B ENG MCH 5
BOHME EKKEHARD H W 35 FRANKLIN AVE TOWN OF MT ROYAL QUE	B SC 3 RE 3 2632	BONIM ORA 3350 COTE ST CATHERINE APT 17 MONTREAL QUE	B SC 3 RE 3 9004
BOHME REINHARD DIETMAR 35 FRANKLIN AVE TOWN OF MT ROYAL QUE	M SC 1 RE 3 2632	BONN JOEL M 629 PRINCE ARTHUR ST W 307 MAIN ST W MAGOG QUE	B ENG 1 VI 9 0739
BOHSALI NASSIR 3637 UNIVERSITY ST MTL BOX 299 BEIRUT LEBANON	B ENG 1 VI 9 1736	BONNEAU JOSEPH PIERRE B ST MATHIEU CO LAPRAIRIE QUE	B ENG MCH 4 MI 3 8478
BOIDMAN JACK BERNARD 6205 FIELDING AVE MONTREAL QUE	B COM 2 MU 9 5031	BONYUN DAVID AUSTIN 4395 GRAND BLVD MONTREAL QUE	M A 2 MU 1 6638
BOIDMAN NATHAN 5255 WESTBURY AVE MONTREAL QUE	B COM 2 RE 7 4083	BOOKMAN BERNARD 1703 ST LOUIS ST VILLE ST LAURENT QUE	B ENG MCH 5 RI 8 9407
BOILEAU DOUGLAS R 2005 FORT ST MONTREAL QUE	B ENG EL 3 WE 5 6147	BOONE ALAN W DOUGLAS HALL 54 THIRD ST PRESERVE ISLE MAINE USA	MD CM 2
BOISSONNEAULT JOHN R 204 WOOD AVE WSMT 362 MURDOCK AVE TIMMINS ONT	B SC 4 WE 5 5879	BOONPASAN PANIT 3459 DRUMMOND ST MTL CHULALONGKORN HOSP BANGKOK THAILAND	GRAD DIP 1 VI 4 0653
BOISVERT CLAUDE DOUGLAS HALL 125 TREMOY NORANDA QUE	B C L 2 VI 2 6790	BOOSEY NIGEL MARCHANT 3583 UNIVERSITY ST APT 6 BOURNE ORCHARD BRICKENDON HERTFORD ENGLAND	B COM 2 AV 8 0933
BOISVERT MARCEL 941 DAVAAR AVE OUTREMONT QUE	MD CM 3 CR 1 7952	BORDEN JOYCE ANN 2336 HINGSTON AVE MONTREAL QUE	B C L 1 MU 4 2453
BOIVIN GILLES 3546 EVELYN ST VERDUN QUE	B ARCH 3 PO 8 7971	BORDO MICHAEL DAVID 591 ALGONQUIN AVE MONTREAL QUE	B A 1 RE 8 6248
BOLAND CLIFFORD K BRITTAIR HALL P O BOX 751 BEAUXHARNOIS QUE	2 TCHRS 1	BORHAM BERNARD R W MACDONALD COLLEGE R R 2 DANVILLE QUE	B SC AGR 2
BOLDUC DENIS MICHEL 809 GILFORD ST MONTREAL QUE	B ENG 2 LA 3 7146	BORENSTEIN LIONEL 3947 CLARK ST MONTREAL QUE	B SC 4 AV 8 7505
BOLE BARBARA LYNNE 624 48TH AVE LACHINE QUE	2 TCHRS 1 ME 7 0554	BORENSTEIN STANLEY 5811 DAVIES AVE MONTREAL QUE	B A 3 MU 8 7536
BOLOTEN SIDNEY MARVIN 5308 WESTMORE AVE MONTREAL QUE	B SC 2 MU 9 8152	BORGER SONDRA J E 49 SUMMERHILL AVE VALOIS QUE	B SC P OT 2 OX 7 2579
BOLTON RICHARD ANDREW E 4325 MONTROSE AVE WESTMOUNT QUE	B SC 4 WE 5 7873	BORODAJKEWYCZ ALEXANDER 3875 ST DOMINIQUE ST MONTREAL 18 QUE	B ENG 1 VI 9 1763
BONACORSI ANTHONY O 1466 MANSFIELD ST MTL 9 CHERRY ST BARRE VERMONT USA	B D S 1 VI 5 4154	BOSWELL BRYCE REA VICTORIA P E I	B SC AGR 1
BONATHAN ANNE E 134 ST CHARLES ST W LONGUEUIL QUE	L MUS 1 OR 4 6618	BOTCHETT DOREEN M ROYAL VICTORIA COLLEGE 61 BLECKER ST ORILLIA ONT	B A 1 VI 2 0597
BOND MARION JOAN ROYAL VICTORIA COLLEGE 94 STANLEY ST NORTH SYDNEY N S	B A 2 VI 2 0487	BOTKIN LINDA JOAN 30 HEATH RD HAMPSTEAD QUE	B SC 2 MU 4 8156

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BOUCHETTE MURRAY DOUGLAS HALL 26 BROADWAY AVE OTTAWA ONT	B SC 2	BOYD GAIL ANN MARRION MACDONALD COLLEGE CALUMET QUE	2 TCHRS 1
BOUDREAU ROGER R 8393 DROLET MTL ORANDE RIVIERE CTE GASPE QUE	B ENG CIV 5 DU 8 4389	BOYD NICHOLAS TRAYNER 3653 UNIVERSITY ST MONTREAL QUE	B A 2 AV 8 1517
BOURASSA JACQUES 4590 WESTMORE AVE MONTREAL QUE	B C L 1 HU 6 8183	BOYD NORMAN JAMES 296 GREEN ST ST LAMBERT QUE	B C L 1 OR 2 1589
BOURDON FRANCE 105 QUERBES AVE APT 17 OUTREMONT QUE	B SC 1 CR 7 8667	BOYD ROBERT BEVIN 2302 CLIFTON AVE MONTREAL QUE	B SC AGR 1
BOURGAULT LOUISE 3490 A PEEL ST MTL 42 4TH AVE AMOS QUE	M SC 1 AV 8 9974	BOYD RONALD THOMAS 35 FIFTH AVE VERDUN QUE	M S D DIP PO 6 5777
BOURGEAU JUNE MARIE MACDONALD COLLEGE BOX 24 WYMAN QUE	3 TCHRS	BOYD SARAH LINSOTT ROYAL VICTORIA COLLEGE 196 ELGIN ST ARNPRIOR ONT	B A 4 VI 2 0526
BOURNE HEATHER JEAN 386 ROSLYN AVE WSMT 1525 MISSISSAUGA RD PORT CREDIT ONT	B A 2 WE 7 2548	BOYER MARIE MONIQUE 5675 GATINEAU AVE APT 8 MONTREAL QUE	B SC P OT 2 RE 1 1437
BOURNE MARY GAIL ROYAL VICTORIA COLLEGE 419 KING GEORGE AVE SHERBROOKE QUE	B A 2	BOYER MICHEL GUY 372 METCALFE AVE WESTMOUNT QUE	B A 1 WE 3 7180
BOURQUE JACQUES ROYAL VICTORIA HOSPITAL 628 BOURQUI ST SHERBROOKE QUE	MED DIPL 2	BOYES BARBARA GRACE 484 STRATHCONA AVE WESTMOUNT QUE	B SC 2 WE 7 4857
BOUTHILLIER GUY GEORGES 1102 MONT ROYAL AVE E MONTREAL 34 QUE	B C L 1 LA 1 3938	BOYES PHILIP W 404 STRATHCONA AVE WESTMOUNT QUE	B ENG 1 WE 7 4857
BOUTIN FRANCOISE M 109 DUCHASTEL ST MONTREAL 8 QUE	B C L 2 CR 4 8639	BOYKO ROMAN 5159 GATINEAU AVE MONTREAL QUE	B COM 4 RE 8 4797
BOUTIN JOSEPH LOUIS P J 84 DORVAL ST LEVIS QUE	B ENG 1	BOYLE LAWRENCE JAMES 3501 MONTCLAIR AVE MONTREAL 28 QUE	M A 1 HU 4 7498
BOVILLE BYRON WALTER 275 50TH AVE LACHINE QUE	PH D 3 ME 7 2163	BOYLE PETER JOCELYN 3466 JEANNE MANOE ST MONTREAL QUE	B E 2
BOWE JOHN V 4965 COTE ST LUC RD APT 21 MONTREAL QUE	MD CM 4 HU 4 4721	BOYLEN JOYCE BEATRICE 3668 DUROCHER ST APT 11 MTL 1879 JANE ST WESTON ONT	PH D 4 VI 2 2893
BOWEN LIONEL ANTHONY 121 ARLINGTON AVE WESTMOUNT QUE	B ENG 2 WE 7 1307	BOYNE MARY KATHNARINE MACDONALD COLLEGE 203 HINDERSLEY AVE TOWN OF MT ROYAL QUE	2 TCHRS 1
BOWEN ANN ISABEL MACDONALD COLLEGE R R 2 LENNOXVILLE QUE	B SC M EC 1	BOYTING PAUL WILLIAM W 2011 MCGRILL COLLEGE AVE P O BOX 364 FAIRVIEW ALTA	M A 1 VI 9 9986
BOWIE RICHARD JOHN F 975 ST CLARE RD TOWN OF MT ROYAL QUE	B A 4 RE 7 2252	BRACEWELL GARTH ARTHUR 1695 FILION VILLE ST LAURENT QUE	B SC 1 RI 7 4935
BOWLER ELAINE BERNADETTE 3459 DRUMMOND ST MTL 26 LYNDSE ST SALEM MASS USA	GRAD DIP 1 VI 2 1509	BRACK DAVID MELVILLE 2163 ST LUKE APT 2 MONTREAL QUE	B SC 4 WE 2 8340
BOWLES OLIVE CHATWORTH 2500 BENNY CRES MONTREAL QUE	B A 4 HU 8 4556	BRACKEN DELL FRANKLIN 90 MYRAND NORD QUEBEC CITY 10 QUE	M SC 2 MU 1 5135
BOWMAN HELEN COOPER 266 ST LAURENT ST ROSEMERE QUE	MED DIPL 3 NA 5 2080	BRACKEN MARILYN WYLIE 5251 VICTORIA AVE APT 2 MONTREAL QUE	GRAD DIP 1 RE 7 4855
BOYD DAVID ROSE 6666 E GREEN LAKE WAY SEATTLE 3 WASH USA	MD CM 1	BRADFORD BRUCE W MACDONALD COLLEGE R R 5 LACHUTE QUE	B SC AGR 2
BOYD ELIZABETH ANNE MCLENNAN MALL 1900 CARDIN AVE TRACY SOREL QUE	B SC P OT 3 VI 2 0044	BRADLEY CLEVELAND WILLIAM 4073 MELROSE AVE MONTREAL 28 QUE	M ENG 1 HU 4 2398
		BRADLEY ELLA MAY ROYAL VICTORIA COLLEGE BOX 802 PRESCOTT ONT	B ED P ED 3 VI 9 0858

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BRADLEY HELEN R DOREEN ROYAL VICTORIA COLLEGE INDIAN COVE VIA BATTLE HARBOUR LABRADOR	B SC P OT 1 VI 2 0571	BREAU GEORGE J P C 15 MACDONALD COLLEGE 101 RICE ST EDMUNDSTON N B	D D S 4
BRADLEY JOHN ELLIOT 3073 MELROSE AVE MONTREAL 28 QUE	B A 3 HU 4 2398	BRECKENRIDGE JOHN A 1800 GRAHAM BLVD MONTREAL 16 QUE	S T M 1 RE 9 7741
BRADLEY PAMELA ANNE 3417 MELROSE AVE APT 7 MONTREAL QUE	PH D 1 HU 4 4505	BREGMAN NATHAN BERNARD 972 PRATT AVE OUTREMONT QUE	B SC 4 RE 3 9040
BRADLEY ROBERT E 3473 UNIVERSITY ST MTL 6240 CLANRANALD AVE MONTREAL 29 QUE	MD CM 2 VI 9 1791	BREITBART CHARLES ANTHONY 185 PRINCE ARTHUR APT 18 SIOUXA 2364 OLIVOS BUENOS AIRES ARGENTINA	B COM 3 VI 4 7684
BRADSHAW JOAN R 57 MAPLE DR R C A F STA ST HUBERT QUE	B A 2	BREITHAUPF RICHARD W 3506 UNIVERSITY ST MTL 1 ROCHESTER AVE TORONTO 12 ONT	B SC 2 VI 4 0624
BRADSHAW RICHARD P 19 DE CASSON RD WESTMOUNT QUE	B COM 3 WE 2 4644	BREMER INGRID 90 FIELDFAIRE AVE BEAUREPAIRE QUE	2 TCHRS OX 5 2154
BRADSHAW RUTH O F 1389 REDPATH CRES MTL 15 ST ANDREW S QDNS TORONTO 5 ONT	B SC P OT 4	BRENCIAGLIA GIOVANNI DOUGLAS HALL VIA FLAMINIA 160 ROME ITALY	B SC 4 VI 4 6968
BRADY JAMES JOSEPH 3741 PEEL ST MTL 101 BELVIDERE BLVD NORTH PROVIDENCE R I USA	D D S 1 VI 9 0133	BRENCIAGLIA PAOLO DOUGLAS HALL VIA FLAMINIA 160 ROME ITALY	B SC 3 VI 4 6968
BRADY PAUL GERARD FIELDHOUSE 45 BEACH CRES SMITHS FALLS ONT	B SC 1	BRENDER ALLAN USHER 973 HARTLAND AVE OUTREMONT 8 QUE	B SC 4 RE 3 7208
BRAIN ELIZABETH ROYAL VICTORIA COLLEGE R P 2 HAWKESBURY ONT	B A 1 VI 2 0847	BRENDER WILLIAM JOSEPH 5929 CLANRANALD AVE MONTREAL QUE	B A 3 RE 8 3883
BRAININ JULIUS 4869 DRAPER AVE MONTREAL QUE	PARTIAL HU 9 7295	BREHOUSE SOREL L 664 DAVAR AVE OUTREMONT QUE	B A 2 CR 7 7747
BRAITHWAITE DESMOND L 69 EDWARD ST PORT OF SPAIN TRINIDAD S W I	MD CM 2	BRENNAN DONALD DUNCAN 3434 MCTAVISH ST MONTREAL QUE	B ENG MCH 5 VI 2 4492
BRAMMELL HOMER LEON 3225 APPLETON AVE APT 5 R F D 3 WILLIMANTIC CONN USA	MD CM 3 RE 7 8973	BRESLIN SANDRA ANNE 23 LEGAULT STE ANNE DE BELLEVUE QUE 5200 WEST HILL AVE MONTREAL QUE	2 TCHRS 1
BRAMWELL NEIL DAVID 481 PRINCE ARTHUR ST W MONTREAL QUE	PARTIAL AV 8 7773	BRETT BRIAN DUDLEY 3485 MCTAVISH ST MTL 497 RAGLAN RD WINNIPEG 10 MAN	M SC 2 VI 9 0141
BRANDES JACK SOLOMON 5176 TRANS ISLAND AVE JOSEPH ST KEMPTVILLE ONT	B SC 1 HU 1 9159	BREWER JACK R DOUGLAS HALL 2117 HARRIS ST EUREKA CALIF USA	MD CM 3 VI 2 1986
BRASS CAROLYN WENDY MACDONALD COLLEGE 35 NELSON ST MONTREAL WEST QUE	2 TCHRS 1	BREWER MICHAEL BRIAN 407 WALPOLE AVE TOWN OF MT ROYAL QUE	B ENG CH 4 RE 7 831
BRAUN KLAUS J 2044 ST JUST ST MONTREAL QUE	B SC 2 CL 5 7474	BRICHTA EDGAR SIGMUND P O BOX 127 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	MD CM 3
BRAUNSTEIN PETER M 649 MILTON ST MTL 4808 ROSLYN AVE MONTREAL QUE	MD CM 3 AV 8 5313	BRICK JOAN FRASER 211 KINDERSLEY AVE TOWN OF MT ROYAL QUE	B SC P OT 1 RE 7 0341
BRAY JOHN VICTOR GUY 637 MILTON APT 1 MONTREAL 18 QUE	PH D 3 VI 4 5609	BRICK PETER JOHN 211 KINDERSLEY AVE TOWN OF MT ROYAL QUE	B COM 2 RE 7 0341
BRAY RUTH MACDONALD COLLEGE 409 DENISON ST W GRANBY QUE	2 TCHRS 2	BRIDGE JOHN GEORGE 3647 UNIVERSITY ST MTL FORT COULONGE QUE	B COM 2 VI 9 2886
BRAZIER OLIVER GIDDENS 51 HIGHLAND ST CAMBRIDGE MASS USA	MD CM 1	BRIDGE ROBERT ANDREW B 1547 MCGREGOR AVE MONTREAL QUE	B ENG EL 4 WE 7 8800

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BRIDGER MALCOLM KEITH 481 SHERBROOKE ST W MTL 46 PERREAU AV STE ANNE DE BELLEVUE QUE	B SC 3	BROOKS HILL HELEN HEATHER 3480 ONTARIO AVE MTL 53 SECOND ST OAKVILLE ONT	B SC P OT 2 VI 2 0044
BRIDGES JOHN ALAN 39 ELLENDALE RD HAMPSTEAD QUE	B A HU 6 5691	BROSSARD MAURICE 364 BIRCH AVE ST LAMBERT QUE	PH D 2 OR 1 6036
BRIDGEWATER ALBERT W 4150 CAVENDISH BLVD APT 32 MONTREAL QUE	B ENG 1 HU 8 7135	BROTMAN CAROL 11 HEATH RD HAMPSTEAD QUE	B SC P OT 2 HU 8 2120
BRIDGMAN JOHN HARWOOD 776 LEXINGTON AVE WESTMOUNT QUE	B A 2 HU 6 4634	BROTT IRENE MACDONALD COLLEGE 4893 PLAMANDON AVE MONTREAL QUE	3 TCHRS
BRIERLEY JOHN F C 22 THORNHILL AVE WESTMOUNT QUE	B CL 4 WE 3 3218	BROWN ABIGAIL MCLEAN ROYAL VICTORIA COLLEGE 915 AVENUE C WHARTON TEXAS USA	B SC 2 VI 2 0113
BRIGHTON GORDON R 223 MONACO AVE PTE CLAIRE QUE	B ENG 2 OX 7 0987	BROWN BARBARA ANNE 143 ST JOHN E RD PTE CLAIRE QUE	HDICRAFTS 1 OX 5 9302
BRINKER GERALD 5337 QUEEN MARY RD APT 4 MONTREAL QUE	B ENG CH 3 HU 6 2356	BROWN BARRIE H 4484 SHERBROOKE ST LACHINE QUE	B CL 2 ME 7 5493
BRITT PIERRE M 3557 STE FAMILLE ST APT 1 MTL 48 DALY AVE OTTAWA ONT	B ENG MCH 5	BROWN BASIL ST JOHN INTERNES RESIDENCE MONTREAL GENERAL HOSP CEDAR AVE MONTREAL QUE	MED DIPL 4
BRITT ROBERT PETER 4405 MELROSE AVE MONTREAL 28 QUE	B ENG 1 HU 4 1237	BROWN CAROLYN PATRICIA 4380 HAMPTON AVE MONTREAL QUE	B SC 1 HU 6 4397
BROBBEY EUGENE A G 3538 HUTCHISON ST MTL PO BOX X92 P N T KUMASI GHANA W A	B ENG 2	BROWN CHARLES KIRKLAND 8 QUERBES AVE DORION QUE	PH D 2
BROCKHOUSE JOHN E 3815 GILBOUARD AVE MONTREAL QUE	B COM 1	BROWN CHARLES STANTON 4711 PLAMONDON AVE MTL 38 THIRD ST ILION NEW YORK USA	MD CM 1
BROCKLEHURST ROBERTA E L 112A ST ANNE ST STE ANNE DE BELLEVUE QUE	3 TCHRS	BROWN CYRIL JOSEPH 3545 UNIVERSITY ST MONTREAL QUE	B SC 3 VI 9 4610
BRODER HANNAH 6301 MCLYNN AVE MONTREAL QUE	M B D DIP RE 3 6635	BROWN DAVID JOHN 4640 CHAPMAN ST MONTREAL 36 QUE	B A 1 RA 2 3094
BRODEUR ROBERT 2075 PROVOST LACHINE STE HELENE CO BAGOT QUE	B ENG COM 5 ME 5 2862	BROWN EDWARD A B 71 LES CHENAUX VAUDREUIL QUE	B SC AGR 1
BRODIE ELIZABETH 4710 UPPER ROSLYN AVE MONTREAL QUE	M B W 1 HU 6 6333	BROWN GORDON HARRISON 97 THURLOW RD MONTREAL 29 QUE	B ENG MCH 3 HU 1 2249
BRODIE ROBERT DONALD 101 FINCHLEY RD HAMPSTEAD QUE	B ENG MCH 3 HU 1 1988	BROWN JOHN 4090 ROYAL AVE MONTREAL QUE	B SC 4 HU 1 1156
BRODIN GLORIA JOYCE 657 ROSLYN AVE WESTMOUNT QUE	B A 3 HU 6 1767	BROWN JUDITH ALICE MACDONALD COLLEGE 435 7TH AVE LACHINE QUE	2 TCHRS
BRODSKY LEWIS 8004 UPPER LACHINE RD MONTREAL WEST QUE	B SC 1 HU 4 4733	BROWN KATHERINE LOUISE 6841 31ST AVE MONTREAL 36 QUE	B SC 4 RA 7 6414
BROMKE ADAM 4747 BOUCHETTE ST MONTREAL QUE	PH D 4 RE 1 1843	BROWN KEITH CONRAD 1452 BISHOP ST APT 26 MONTREAL QUE	M A 1 AV 8 5373
BROMLEY CAROL M STEWART HALL 590 PORTLAND AVE TOWN OF MT ROYAL QUE	B ED 2	BROWN MARVIN 272 RACHEL ST E MONTREAL QUE	M SC 1 VI 4 1007
BRONSTEIN LEON 1564 LAJOIE AVE OUTREMONT QUE	B ENG COM 5 CR 9 2383	BROWN MAURICE C 3490 HUTCHISON MTL 6 MAIN ST ST ANNS BAY JAMAICA W I	B ENG EL 3 VI 5 2487
BRONSTEIN PEARL 1564 LAJOIE AVE OUTREMONT QUE	B SC P OT 2 CR 9 2383	BROWN MAXWELL LINCOLN BRITAIN HALL 49 SOMERSET AVE KINGSTON JAMAICA W I	B SC AGR 4
BROOKS JEAN 204 STONEHENGE RD SEACONSFIELD QUE	2 TCHRS OX 5 5247		

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BROWN MORTON BERTRUM 4935 ISABELLA AVE MONTREAL 29 QUE	B SC RE 8 4298	BRIDEN MARK PHILIP 3683 HUTCHISON ST APT 9 MTL BOX 37 WEST TOSHAM VERMONT USA	PH D 3 VI 2 6390
BROWN NEVILLE JOHN ERIC 1447 METCALFE ST APT 14 314 HENRY ST LACHUTE QUE	B SC VI 4 6161	BRIDON JOHN HOWARD BRITTAIN HALL 80 CAMBRIDGE ST QUELPH ONT	B SC AGR 2
BROWN PETER LAWRENCE 5515 SILVERSON AVE COTE ST LUC QUE	B A HU 4 9809	BRUJA EDWARD JOSEPH 6415 10TH AVE MONTREAL 36 QUE	B COM 2 RA 2 5822
BROWN REA A 419 PRINCE ARTHUR ST W R R 1 CARDINAL ONT	MD CM VI 9 3364	BRUNY EILEEN ROSEMARY MACDONALD COLLEGE BOX 43 MAIN ST ST ANDREWS EAST QUE	2 TCHRS 1
BROWN RICHARD E 65 DEVON RD BEAUREPAIRE QUE	B SC OX 5 2048	BRUNY MILDRED ELIZABETH MACDONALD COLLEGE ORMSTOWN QUE	2 TCHRS
BROWN RICHARD THOMAS P R 1 BELLEVILLE ONT	B ENG EL 4	BRZEZINSKI LESTER S 421 METCALFE AVE MONTREAL 6 QUE	B ENG CIV 5 WE 5 9966
BROWN ROBERT 2027 BARCLAY AVE MONTREAL QUE	B ARCH RE 8 9603	BUCHAK ROXANNE M 131 CORNWALL AVE TOWN OF MT ROYAL QUE	D DB 3 RE 3 7346
BROWN ROBERT ALLEN 431 CARLYLE AVE TOWN OF MT ROYAL QUE	B ENG RE 1 4390	BUCHAN JAMES ERSKINE 5542 COOLBROOK AVE MONTREAL 29 QUE	B ENG COM 5 RE 8 5419
BROWN ROBERT GEORGE 17299 ST MARYS RD ST GENEVIEVE QUE	M SC 1	BUCHANAN DONALD C 557 GERALD ST VILLE LASALLE QUE	B ENG EL 3 DO 6 7049
BROWN SUSAN MARGARET 163 DUFFERIN RD HAMPSHIRE QUE	B A HU 4 2473	BUCHNER JOHN 456 PINE AVE W APT 28 BLVD SAN ANTONIO ABAD NO 4 SAN SALVADOR EL SALVADOR C A	B COM 2 VI 9 0284
BROWN THOMAS CHALMERS 1640 FOCH CRES VERDUN QUE	B A PO 7 4734	BUCKLEY BRIAN BLADON 3170 DE LAVIGNE RD MONTREAL QUE	B COM 2
BROWNE ROBERT JAMES 64 FORDEN CRES WSMT 15 TALLY HO AVE DUNDAS ONT	B SC HU 1 5411	BUDGE PATRICIA WENDY ROYAL VICTORIA COLLEGE CHARTWOOD HOUSE R R 1 AYLMER RD HULL QUE	B SC N 3 VI 2 0327
BROWNLEE NORMAN M 5436 CLANNAMALD AVE MONTREAL QUE	B COM 4 HU 4 3057	BUDGE ELLSWORTH MUNDEN 3552 UNIVERSITY ST MTL 344 MOWAT AVE KINGSTON ONT	B ENG CH 3 VI 9 0328
BROWNSTEIN SEYMOUR 5725 TRANS ISLAND AVE MONTREAL QUE	B SE 3 RE 7 2896	BUEENAHORA MANUEL 1120 BERNARD AVE APT 41 MONTREAL QUE	B ENG 1 CR 4 1069
BRUCE ROBERT DOUGLAS MACDONALD COLLEGE 52 TUNSTALL AVE SENNEVILLE QUE	B SC AGR 3	BUDGE SIDSEL 36 BEVERLEY AVE TOWN OF MT ROYAL QUE	M SC 1 RE 8 2153
BRUCK ARLENE 517 CLARKE AVE WESTMOUNT QUE	M A WE 3 7719	BUKA NORMAN 2835 LAURIER ST E MONTREAL QUE	MD CM 4 LA 4 1625
BRUKER MITZI HOPE 433 ST JOSEPH BLVD W APT 10 MONTREAL QUE	B SC N CR 7 3779	BULCHAK WALTER B 4380 WESTERN AVE MTL 321 ST CLAIR AVE E TORONTO ONT	D DB 4 WE 3 5545
BRUNET ROBERT 8310 ST ANDRE ST MONTREAL QUE	B ENG PHY 4 DU 1 1497	BULLEN MILES REX BOX 31 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	M SC 2
BRUNET ROLLAND JOSEPH BOX 183 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	M SC 1	BULLOCK CHARLOTTE MAY ROYAL VICTORIA COLLEGE 100 COURT ST NORTH ANDOVER MASS USA	B A 1 VI 9 0030
BRUNSCH KAREN V 3480 ONTARIO AVE MTL 324 JANET ST SUDBURY ONT	B SC P OT 3 VI 2 0044	BURCAW RICHARD CHARLES 3445 PEELE ST MTL 605 BLICK DR SILVER SPRING MD USA	D DB 1 VI 5 9462
BRUNSWICK JOHN P 3825 DUPUIS APT 19 MTL 201 NORTH 7TH ST DELAVER WISCONSIN USA	MD CM 4 RE 8 3033	BURDMAN RALPH 3435 DRUMMOND ST MONTREAL QUE	B SC 1 VI 8 4738
BRYAN ALBERT RAHR 545 PINE AVE W MTL 4427 N MORRIS BLVD MILWAUKEE WISC USA	MD CM 4 VI 5 7045		

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BUREAU ROGER EUGENE A 3547 BURCHER ST APT 4 MONTREAL QUE	B A 3 VI 4 4272	BURCHTYN HYMAN 19 IRVING ST NEW HAVEN CONN USA	M A 1
BURGESS DRUMMOND EATON 568 BERWICK AVE TOWN OF MT ROYAL QUE	M A 1 RE 8 2608	BURSKY STEVEN JAY 3483 PEEL ST MTL 9205 WHITNEY AVE ELMHURST 73 QUEENS N Y N Y USA	B SC 1 VI 2 0882
BURGESS PATRICIA JEAN 10 ROSEMOUNT AVE WESTMOUNT QUE	B A 3 WE 2 1534	BURETYN PETER GEORGE R 14 MAPLEWOOD AVE OUTREMONT QUE	B SC 1 CR 2 0598
BURGOLF GARY WINSTON 4082 OXFORD AVE MONTREAL QUE	B SC 2 MU 1 4963	BURTON LAWRENCE G 56 CURZON AVE MONTREAL QUE	B ENG 2 MU 6 8580
BURKE BETTY 4702 COOLBROOK AVE MONTREAL QUE	M B W 2 MU 1 9540	BUSH DAVID HENRY 3476 WEST BROADWAY AVE MONTREAL 28 QUE	B ENG CH 5 MU 4 8069
BURKE GERALD C 3420 KENSINGTON AVE APT 24 MONTREAL QUE	B SC 1 MU 8 5218	BUSSEY BRIAN WILLIAM 1004 MOFFAT AVE VERDUN QUE	B ENG CH 3 PO 7 4071
BURKE JOHN K M 4636 MARCIL AVE MTL 2500 LAJOIE ST THREE RIVERS QUE	B ENG 2 MU 4 9644	BUTLER JOHN WARREN 4725 DOWERY MONTREAL 29 QUE	B ENG COM 5 MU 8 6277
BURKSON JOHN E 3629 LORNE GRES APT 4 P O BOX 16 AKIM AKROBO GHANA WEST AFRICA	B SC 2 VI 2 0364	BUTLER KENNETH K 5330 O BRYAN MONTREAL QUE	B ENG CIV 5 MU 1 8813
BURMAN BRYNA MACDONALD COLLEGE 5345 BRODEUR AVE MONTREAL QUE	2 TCHRS 2	BUTLER RICHARD GERARD 1840 SHERBROOKE W MTL 122 BELLEVUE ISLE MALONE QUE	B ENG CIV 4
BURMAN MICHAEL HOWARD 48 NELSON AVE OUTREMONT QUE	B SC 1 CR 9 9708	BUTLIN JANIS ELIZABETH MACDONALD COLLEGE 38 ROSEVIEW AVE RICHMOND HILL ONT	B SC H EC 1
BURNETT KAREN DIANNE 910 45TH AVE LACHINE QUE	B SC P OT 1 ME 7 2753	BUTMAN STANLEY I 5565 WAVERLY ST MONTREAL QUE	B ENG COM 5 CR 1 1968
BURNETT MERKES JAMES N BRITTAIN HALL THREE HARBOURS BERMUDA	B SC AGR 2	BUTOVSKY MERVIN 5200 COTE ST CATHERINE APT 3 MONTREAL QUE	M A 1 RE 7 9786
BURNEY MARGARET FOWLER ROYAL VICTORIA COLLEGE 4188 AMBOY RD STATEN ISLAND 8 N Y USA	B A 2 VI 2 0495	BUTCH JOHN L 3600 ST FAMILIE ST APT 3 25 CHAPIN PKWY BUFFALO N Y USA	MD CM 4
BURNHAM DONALD 509 PROVOST AVE LACHINE QUE	B COM 1 ME 4 1137	BUTT ALBERT CHAT PUI C 532 MILTON APT 8 MTL 16 SAU WA TERR HONG KONG	B COM 3
BURNS BEVERLEY A STEWART HALL 1050 FOURTH AVE VERDUN QUE	2 TCHRS 2	BUTT BARRIE COLLESTER 1604 PINE AVE W APT 4 MONTREAL QUE	M SC 2 WE 2 4880
BURNS ROBERT LEO 554 MILTON ST APT 7 MONTREAL QUE	B A 3	BUTT NIGEL ANTHONY 2039 MCGILL COLLEGE AVE APT 23 MTL 17 ST VINCENT ST PORT OF SPAIN TRINIDAD W I	B SC 2 VI 9 8400
BURNSIDE JAMES DOUGLAS BRITTAIN HALL R R 3 MADOC ONT	B SC AGR 3	BUTTERFIELD DEBORAH ST G ROYAL VICTORIA COLLEGE PALMRIDGE POINT SHARES BERMUDA	B A 2
BURNSIDE JOHN WILLIAM D BRITTAIN HALL 741 OSBORNE AVE VERDUN QUE	2 TCHRS	BUTTERY RALPH JAMES 21 PICARDY RD BAIE D'URFEE QUE	B SC 2
BURPEE PETER ORIER 5 RENFREW AVE WESTMOUNT QUE	B SC 4 MU 4 2484	BUZAK JANUSZ ROMAN 4970 COTE DES NEIGES APT 12A MONTREAL QUE	B ENG MET 5 RE 7 7359
BURPEE THOMAS RICHARD 5 RENFREW AVE WESTMOUNT QUE	B COM 4 MU 4 2484	BUZZETTI JOHNNY 7465 BERRI ST MONTREAL QUE	B SC 2 CR 4 1275
BURROWS DOROTHY LEONA 3836 HARVARD AVE MONTREAL QUE	DIP ASSOC 1 MU 6 3975	BYER STEPHEN MORTON 6888 LEMIEUX ST MONTREAL QUE	B SC 2 RE 8 4641
BURROWS ELIZABETH JANE MCLENNAN HALL 8 RIVERVIEW RD LACHINE QUE	M A 1	BYERS CHARLES HARRY 9 KING 5 RD VALOIS QUE	B ENG CH 3 OX 7 2260

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BYERS MICHAEL ALAN 18 ABERDEEN AVE WESTMOUNT QUE	B ENG 2 WE 2 9966	CAMERON AIRLIE A C 3980 COTE DES NEIGES APT B 25 MTL MT WHITNEY RD LAKE PLACID N Y USA	MD CM 3 WE 3 7110
BYRNE EDWARD MICHAEL 3255 RIDGEWOOD AVE APT 17 MTL BOX 1000 LIVERPOOL N S	B ARCH 6 RE 9 7550	CAMERON ALLAN I 4193 NORTHCLIFFE AVE MTL P O BOX 2061 BAIE COMGAU ST GEORGES QUE	B SC 1 HU 4 2483
BYSTRAM AGATHA M 3484 DUROCHER ST APT 311 MONTREAL QUE	B L S 1 VI 9 8250	CAMERON DONALD B 319 ROSLYN AVE MTL 2 7TH ST S KENORA ONT	B COM 1 WE 7 0127
C			
CABRI LOUIS JEAN PIERRE 4872 COTE DES NEIGES RD APT 6 MONTREAL QUE	M SC 1 RE 9 7189	CAMERON ELIZABETH J 49 PARKSIDE MONTREAL WEST QUE	B SC N 4 HU 4 8915
CADIEUX ROCH G 3647 UNIVERSITY ST MTL P O BOX 822 11 LANG AVE KAPUSKASING ONT	B SC 4 VI 9 2806	CAMERON SHEILA MARY LAIRD HALL 640 45TH AVE LACHINE QUE	B ED P ED 2
CAESAR ARNOTT WINSTON 3602 DUROCHER ST APT 11 5 GRAHAUL ST SAN FERNANDO TRINIDAD S W I	B ENG EL 3 VI 4 5560	CAMPBELL ARTHUR RAE 3539 HUTCHISON ST MTL 14 ROY ST ORMSTOWN QUE	B ENG 1 VI 5 8791
CAMILL CYRIL F 4970 COTE DES NEIGES MONTREAL QUE	MED DIPL 2	CAMPBELL BRAHM 3285 LINTON AVE MONTREAL QUE	B CL 2 RE 7 7187
CAMILL GWENDOLYN G 217 BEDBROOK MONTREAL WEST QUE	B A 2 HU 1 2644	CAMPBELL BRIAN M 48 ST ANDREWS RD BAIE D'URFEE QUE	B COM 1
CAIRNCROSS GEORGE A HOWICH QUE	B SC AGR 1	CAMPBELL COLIN PATERSON 4846 CEDAR CRES MONTREAL 29 QUE	B SC 3 RE 8 8252
CAIRNS ALAN ANDREW BRITTAIN FALL ANCHRAMDALE NEW YORK USA	B SC AGR 1	CAMPBELL DAVID BEARCE 4846 CEDAR CRES MONTREAL 29 QUE	B CL 1 RE 8 8252
CAIRNS CHARLES DAVID WILSON HALL 2446 84TH AVE S E CALGARY ALTA	B SE 2	CAMPBELL DONALD K 227 KINDERSLEY AVE TOWN OF MT ROYAL QUE	MD CM 2 RE 3 2208
CALDER HELEN GRACE OAKLAND AVE HUDSON HEIGHTS QUE	B SC 2	CAMPBELL DOUGLAS CAMERON 5 5TH AVE DORVAL QUE	B ENG CIV 4 ME 1 5135
CALDWELL CYNTHIA 168 PORTLAND AVE MONTREAL 16 QUE	B A 3 RE 8 9901	CAMPBELL DWIGHT VICTOR L 3490 HUTCHINSON ST MTL 1 A CHELSEA AVE HALF WAY TREE JAMAICA P W I	B ENG 2
CALDWELL DAVID WOODRUFF 8 LEGAULT ST STE ANNE DE BELLEVUE QUE 240 53RD AVE LACHINE QUE	B SC AGR 2	CAMPBELL HUGH JOHN 3609 UNIVERSITY ST MTL 353 KINGSTON CRES WINNIPEG 8 MAN	PH D 3 WE 8 6307
CALDWELL WILLIAM N 303 DESMARCHAIS BLVD VERDUN 19 QUE	B ENG MCH 5 PO 6 3333	CAMPBELL IAN MALCOLM 1104 ELGIN TERR APT 201 MTL 91 PAISLEY AVE N HAMILTON ONT	B SC 3
CALES MARION 5723 DAVIES AVE COTE ST LUC QUE	B A 1 HU 4 5660	CAMPBELL JAMES CECIL A 3521 LORNE CRES MTL 615 EARL ST KINGSTON ONT	B ENG MCH 4 VI 4 7257
CALHOUN HEATHER M ROYAL VICTORIA COLLEGE 168 JUNIPER ST SEACONSFIELD QUE	B A 1 VI 2 0829	CANNING ANNE JOSEPHINE C MACDONALD COLLEGE R R 1 THETFORD MINES QUE	3 TCHRS
CALLAGHAN ROSEMARY 5471 MONKLAND AVE MONTREAL QUE	B A 2 HU 9 4298	CANTIN MAURICE 300 SHERBROOKE ST MTL 43 FRASER ST LEVIS QUE	B CL 1 VI 2 0590
CALLENDER BARBARA V LAIRD HALL 28 DANIAN ST WOODBROOK PORT OF SPAIN TRINIDAD W I	B SC M EC 2	CANTLEY GEORGE S D 483 ROSLYN AVE WESTMOUNT QUE	MD CM 4 WE 7 1308
CALVIN MIRAM ARTHUR 3550 LINTON BLVD APT 506 MONTREAL QUE	2 TCHRS RE 1 1714	CANTOR KAYLA 4975 PRINCE OF WALES MONTREAL QUE	B A 3 HU 9 6989
		CANTOR KENNETH ZACHARY 5565 PARK AVE MONTREAL QUE	MD CM 1 OR 4 7141

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CANTOR PEARL 4975 PRINCE OF WALES MONTREAL QUE	B SC P OT 1 MU 9 6989	CARMICHAEL AUDREY HELEN 110 MELBOURNE AVE TOWN OF MT ROYAL QUE	B A 3 RE 7 6304
CAPE DAVID EDMUND SARAQUAY P Q QUE	B ENG CIV 3	CARMICHAEL MOIRA ANNE 117 CHESTER AVE PTE CLAIRE QUE	B A 2 OX 7 1139
CAPE GARY CHRISTIAN 75 MORGAN RD SAIE D URREE QUE	B SC AGR 1	CARMICHAEL OLIVER D 3508 UNIVERSITY ST MTL C O MRS WALTER GRAY 5130 AZILDA ST MONTREAL QUE	B D 1
CAPE MICHAEL GORDON 4568 STANLEY WEIR MONTREAL 29 QUE	B ENG CH 4 RE 1 4176	CARON MELODIE M 77 SUNNYSIDE AVE WESTMOUNT QUE	B ED P ED 3 MU 4 1455
CAPEL MARION FRANCES MACDONALD COLLEGE 61 56TH AVE LACHINE QUE	M B D DIP	CARPENTER ALAN K 375 VICTORIA AVE WESTMOUNT QUE	B ENG 2 MU 1 1486
CAPLAN DANIEL 5517 BORDEN AVE MONTREAL QUE	B SC MU 9 1770	CARPENTER AUSTIN CLARK MACDONALD COLLEGE 1309 ST ANDREWS RD CORNWALL ONT	B SC AGR 3
CAPLAN ELAYNE HESSA 19 GARDEN CITY STE ANNE DE BELLEVUE QUE 882 ROCKLAND AVE OUTREMONT QUE	3 TCHRS	CARPENTER FRANK DAVIES 4821 DORVAL AVE MONTREAL 26 QUE	B SC 1 RE 7 1848
CAPLAN FRANCES 4985 CIRCLE RD MONTREAL QUE	M B D DIP RE 9 2767	CARPENTER MICHAEL J 4281 BARCLAY AVE APT 6 MONTREAL QUE	L MUE 2 RE 7 8184
CAPLAN HAZEL 21 LEGAULT STE ANNE DE BELLEVUE QUE 2802 WILLOWDALE AVE MONTREAL QUE	2 TCHRS 1 RE 8 4824	CARR CYRIL D 1429 STANLEY ST APT 7 28 BEAUFORT GARDENS LONDON S W 3 ENGLAND	B SC 2 VI 4 8030
CAPLAN KAREN 4985 CIRCLE RD MONTREAL QUE	B ED RE 9 2767	CARR DOUGLAS ROBERT BRITAIN HALL 113 FARAH AVE NEW LISKEARD QUE	3 TCHRS 1
CAPLAN LAZARUS DAVID 6300 LENNOX AVE APT 303 MONTREAL QUE	B COM RE 9 1622	CARR ELEANOR M 126 BALFOUR AVE TOWN OF MT ROYAL QUE	B D 2 RE 8 0185
CAPLAN LILLIAN HELEN ROYAL VICTORIA COLLEGE 517 ISLAND PARK DR OTTAWA ONT	B A 2 VI 9 0120	CARRIER BRIAN RONALD 666 WARWICK DR SAIE D URREE QUE	B SC AGR 4
CAPLAN RONALD MERVYN 4985 CIRCLE RD MONTREAL QUE	MD CM RE 9 2767	CARRIER KEITH COLIN 666 WARWICK DR SAIE D URREE QUE	B SC AGR 2
CAPPER ALFRED NORMAN 9 GROVE PK WESTMOUNT QUE	B ENG COM WE 2 9129	CARRIERE PAUL P 108 LAKESHORE DR DORVAL QUE	B CL 3 ME 1 3762
CAPPER JOHN B 9 GROVE PK WESTMOUNT QUE	B ARCH 2 WE 2 9129	CARSCALLEN ELIZABETH S LAIRD HALL 1924 LAUDER DR OTTAWA 3 ONT	B SC AGR 4
CAPPE MARGARET CLARISSA 686 WALPOLE AVE TOWN OF MT ROYAL QUE	B L S 1 RE 8 6562	CARSLEY TIMOTHY R 609 CLARKE AVE MONTREAL 6 QUE	B CL 2 WE 2 2204
CAPRIOLI GIACOMETTA C V 4530 DECARIE BLVD APT 15 MONTREAL QUE	B SC 1 MU 9 3598	CARSON CAROL EDITH 23A STE ANNE ST STE ANNE DE BELLEVUE QUE 6042 MOUNTAIN SIGHTS EYE MONTREAL QUE	3 TCHRS
CARDINAL RENE E 8412 ST HUBERT ST MONTREAL QUE	B ENG COM 5 DU 8 9420	CARSON SUSAN CLAIRE 4986 VICTORIA AVE MONTREAL QUE	B A 1 RE 8 2436
CARLISLE CAROLYN RUTH 285 55TH AVE LACHINE QUE	B ED 1 ME 7 2237	CARSWELL ROBERT SHANNON 3633 OXENDEN AVE MTL 46 MTEE ST MARIE STE ANNE DE BELLEVUE QUE	B A 4 AV 8 6896
CARLSEN ANDREW BERT 3506 UNIVERSITY ST MTL 922 24TH ST BROOKLYN 9 N Y USA	B SC 4 VI 4 0624	CARSWELL WILLIAM KIRKWOOD 3310 SOMERSET RD MONTREAL 9 QUE	B ENG 2 RI 7 8468
CARLSON ARTHUR W 545 PINE AVE W MTL 148 WALDO AVE PIEDMONT 11 CALIF USA	MD CM VI 5 7045	CARTER JOHN CHARLES M 1116 ELGIN TERR APT 301 MONTREAL QUE	M SC 1
CARLSON EDWIN O 545 PINE AVE W MTL 148 WALDO AVE PIEDMONT 11 CALIF USA	MD CM 2 VI 5 7045	CARVER MICHAEL POWYS 2056 VICTORIA ST APT 3 LITTLE VINE COLWELL LANE HAYWARDS HEATH SUSSEX ENGLAND	B A 4 AV 8 4595

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CASETTI EMILIO 3520 VAN HORNE AVE MTL VIA MARIANNA DIONIGI N 16 ROMA ITALY	M A 2	CECIL ROBERT 18 ST JEAN BAPTISTE STE ANNE DE BELLEVUE QUE	B SC AGR 4
CASEY CHARLES ARTHUR 528 LANSDOWNE AVE WESTMOUNT QUE	D D B WE 7 4088	CENTENO JOSE LUIS 1025 PINE AVE W MTL 9 ORIENTE MI INT 3 PUEBLA PUE MEXICO	MED DIPL 1
CASEY PATRICIA ANN 5719 COTE ST ANTOINE W MONTREAL 28 QUE	B A HU 6 9818	CERIGO GEORGE GERASSIMO 4251 MARCIL AVE APT 19 MONTREAL QUE	M A 2 HU 9 3941
CASPI VIVETTE CLAIRE ROYAL VICTORIA COLLEGE APARTADO 4626 ESTE CARACAO VENEZUELA	B SC VI 9 0030	CERMAK IVAN ANTHONY 5174 COTE DES NEIGES RD APT 20 MONTREAL QUE	B ENG 2 RE 3 6346
CASSEN STANLEY 1252 DUCHARME AVE MONTREAL 8 QUE	MD CM CR 4 4757	CHABOT DAVID LOUIS 1441 DRUMMOND ST MTL 49 CHRYSLER AVE OTTAWA ONT	B ARCH 5
CASSAR JOSEPH E 400 ONTARIO ST W MTL 376 QUEBEC ST SHERBROOKE QUE	B CL VI 2 9005	CHABOT JAN 130 LEWIS AVE WESTMOUNT QUE	B SC 2 WE 7 1300
CASSIDY JOYCE DIANNE B MACDONALD COLLEGE 234 19TH AVE ST EUSTACHE SUR LE LAC QUEBEC	3 TCHRS	CHABROL JOHN GERALD D 3737 HUTCHISON ST APT 4 MONTREAL QUE	M SC 1 VI 9 7950
CASSIDY LINDA ANNE 5 LOGAN AVE APT 15 ST LAMBERT QUE	B A OR 1 3504	CHADWICK DOLORES DIANE 5174 WESTBURY AVE MONTREAL QUE	B SC 3 HU 6 3621
CASSILS JAMES A 3027 CEDAR AVE MONTREAL QUE	B A WE 4 1124	CHAFE HAROLD DAVID 120 CASEY ST ST JOHN S NFLD	B ARCH 3
CASSILS JOHN GILMOUR 3027 CEDAR AVE MONTREAL QUE	B SC WE 4 1124	CHAFFEY CHARLES ELWOOD 5637 UNIVERSITY ST MTL 211 MONTROSE ST WINNIPEG 9 MAN	B SC 3 VI 9 1736
CASSON GEORGE MACDONALD MEN S RESIDENCE MACDONALD COLLEGE 18 MUIR ST THURO N S	B SC AGR 3	CHAIGNON JEAN YVES 1619 LAJOIE MONTREAL 8 QUE	M SC 2 CR 1 8823
CASTLE JUDITH ANN 2221 HARVARD AVE MONTREAL QUE	3 TCHRS HU 4 5863	CHAIT ZELDA JEAN 62 ROXTON CRES MONTREAL QUE	B A 2 HU 8 8182
CATTILL SIDNEY ALLEN 4566 MELROSE AVE MTL 4358 BRIDGEVIEW DR OAKLAND CALIF USA	B SC 2 HU 6 1364	CHALLIES GEORGE B 208 CHESTER AVE TOWN OF MT ROYAL QUE	B ARCH 2 RE 8 5779
CATY JOSEPH JOHN C 183 STE FAMILLE ST MTL ROSS MINE HOLTYRE ONT	B COM 1 VI 5 7633	CHALONER GILLIAN MARY ROYAL VICTORIA COLLEGE 535 EAST 14TH ST NEW YORK N Y USA	B SC 2 VI 2 0598
CAULFIELD DAVID ARTHUR 3473 UNIVERSITY ST MTL 50 ORANGE ST ST JOHN N B	B ENG 1 VI 9 1791	CHAMBERLAIN ALICE TOW C BOX 170 HUT 15 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	M SC 2
CAVANAGH NANCY LYNNE 320 LAIRD BLVD TOWN OF MT ROYAL QUE	B A 1 RE 9 2150	CHAMPAGNE DONALD CAIRN 8550 MOUNTAIN SIGHTS MONTREAL QUE	B ENG 1 RE 1 4625
CAVE RONALD GEOFFREY LAURENTIEN HOTEL DOM SQ WINDERMERE BRITTONS HILL BARRADOS W I	B COM 1	CHAMPNESS CLIFFORD HARRY 7167 DAVID ST APT 4 CRAWFORD PARK VERDUN QUE	PH D 2 PO 8 2382
CAWTHORPE HARRIETT AGNES QUEEN MARY VETERANS HOSP LOCKERSBY ONT	MED DIPL 3	CHAN ALICE M 3567 SHUTER ST APT 4 MTL 3 OBSERVATORY RD 1ST FL KOWLOON HONG KONG	MD CM 2 VI 5 0794
CAYA LEOA ANTOINETTE MACDONALD COLLEGE 76 CHATHAM ST LACHUTE QUE	2 TCHRS 1	CHAN ANTHONY SHIU KAU 534 PRINCE ARTHUR ST APT 6 MTL 5 LINCOLN RD KOWLOON TONG HONG KONG	B ENG MCH 4
CAYEN MITCHELL NESS 4775 ROSLYN AVE MONTREAL QUE	M SC 1 HU 1 1309	CHAN FRANCIS S M 534 PRINCE ARTHUR AVE APT 6 MTL 5 LINCOLN RD KOWLOON TONG HONG KONG	B SC 3
CAYNE RONALD E 4655 GROSVENOR AVE MONTREAL QUE	B SC 2 HU 8 5129	CHAN FRANKLIN HEI CHING 3706 JEANNE MANCE ST MTL 163 THIRD ST 2ND FL WEST POINT HONG KONG	B ENG EL 3

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CHAN GEORGE Y F 3712 JEANNE MANCE ST APT 4 MTL 736 NATHAN RD 1ST FL KOWLOON HONG KONG	B SC 2 VI 5 6014	CHAREST CLAUDE 423 PRINCE ARTHUR ST W 10 WILLIAM ST HAWKESBURY ONT	B SC 4 VI 5 1886
CHAN KELVIN KIN WAH 68 LA SALLE RD 2ND FL KOWLOON HONG KONG	MD CM 1	CHARETTE GILLES GAETAN 3505 LORNE ST MTL 137 DRINKWATER ST SUDBURY ONT	B ENG VI 4 5643
CHAN KOON KAY 3715 DROLET ST MONTREAL QUE	B SC 3 VI 4 7339	CHARETTE JOSEPH EUGENE R 9957 LAVERDIERE ST AHUNTSIC QUE	PARTIAL DU 7 3509
CHAN KWOK HUNG 3483 HUTCHISON ST MTL 283 WANCHAI RD HONG KONG	B SC 4	CHARLAP MONROE ALLAN 2990 BOISSONS AVE MONTREAL 26 QUE	B A 2 RE 8 1858
CHAN LONG WAH 294 SHERBROOKE ST W MTL C O NAM YIK CO 22 LEKIR RD SITIAWAN PERAK MALAYA	B ENG 1 VI 9 0001	CHARLEBOIS JEAN CLAUDE DOMAINE DE CERNAY ST MATHIAS QUE	B ENG 1 OL 8 1074
CHAN PANG LING 3610 DUROCHER ST APT 9 8 COMFORT TERR KING S RD HONG KONG	MD CM 2 VI 9 8035	CHARLEBOIS MARIE C 890 MARLBORO DR TOWN OF MT ROYAL QUE	B A 1 RE 7 2348
CHAN SHIU HON HENRY 3484 DUROCHER ST APT 402 55 FORT ST GR FL NORTH POINT HONG KONG	B ENG PHY 3 VI 9 7869	CHARLES CHRISTABEL P 3495 MOUNTAIN ST APT 110 MONTREAL QUE	B A 4 VI 4 4027
CHAN TSU CHIU 3520 LORNE MTL 788 784 ANYWONGE RD BANGKOK THAILAND	B ENG PHY 4	CHARLES DAVID NOEL HUGHES 48 WINDSOR AVE WESTMOUNT QUE	B SC 3 HU 6 0224
CHAN VINCENT ON WAH 3512 SHUTTER AVE APT 104 MONTREAL QUE	B ARCH 4	CHARLES SALLY MAUD G ROYAL VICTORIA COLLEGE 29 SHERIDON HAWKESBURY ONT	B SC 2 VI 2 0113
CHANCE HUGH NICHOLAS 1002 MCGREGOR APT 301 GLENT WORCESTERSHIRE ENGLAND	B ENG 2 VI 5 1424	CHARNEY ISRAEL 6292 DE VIMEY AVE MONTREAL QUE	B SC 1 RE 8 7452
CHANCE MARTIN A 332 CHESTER AVE MONTREAL 16 QUE	B ARCH 2 RE 8 9675	CHARNEY MORRIS 6292 DE VIMY AVE MONTREAL QUE	B ARCH 4 RE 8 7452
CHANDLER SHELTON HARVEY 4849 MELROSE AVE MONTREAL QUE	B ARCH 3 HU 1 4147	CHARNOCK DOROTHY ANNE 44 ACADEMY RD APT 8 WESTMOUNT QUE	B L B 1 WE 5 3833
CHANG ASTLEY S 2985 BEDFORD RD APT 18 MONTREAL QUE	B SC 2	CHATLAND CLARE L ROYAL VICTORIA COLLEGE RT 4 MISSOULA MONTANA U S A	B SC 2 VI 2 0477
CHANG HAUJI YUSUF 371 PRINCE ARTHUR ST W APT 5 MTL C O 21 1ST SECT CHUNG KING SOUTH RD TAIPEH TAIWAN FORMOSA CHINA	M A 3 VI 5 6828	CHAU LEUNG CHUEN 3520 LORNE AVE MTL 18 CIRCULAR PATHWAY HONG KONG	M A 1
CHANG HANG SHING 5022 WEST HILL AVE MONTREAL QUE	PH D 3 HU 8 2974	CHAUDHURI PIJUSH KANTI D 529 PRINCE ARTHUR ST W 71 20 NETAJISUBHAH CH BASER RD CALCUTTA INDIA	B ENG 2 VI 4 0804
CHANG HERMAN 3562 HUTCHISON ST MTL BOX 53 VAUXHALL ALTA	B ENG MCH 5 AV 8 9746	CHAUVIN LINDA ELIZABETH 46 DOBIE AVE TOWN OF MT ROYAL QUE	B SC 1 RE 8 8417
CHANG THOMAS MING SWI 3630 DUROCHER APT 34 MTL 1 CORNWALL ST KOWLOON TONG HONG KONG	MD CM 3 VI 5 3552	CHAUVIN MARGARET ANGELA 2368 HAMPTON AVE APT 8 MONTREAL QUE	B COM 4 HU 4 4859
CHANKOWSKY SOLOMON 6272 MCLYNN AVE MONTREAL QUE	B COM 1 RE 1 2094	CHAVEZ CLAUDIO 1460 MCGREGOR AVE APT 102 MONTREAL QUE	B ENG EL 3 VI 4 2467
CHARBONNEAU JEAN 8930 MAPLEWOOD AVE MONTREAL QUE	B C L 1 RE 1 6995	CHEASLEY CLIFFORD STEPHEN 7 RENNIE AVE MONTREAL WEST QUE	B C L 1 HU 4 6262
CHARBONNEAU JOSEPH GAETON 5 STERLING AVE VILLE LABALLE QUE	B ENG EL 4 DO 5 0686	CHEIFETZ PHILIP N 6247 DE VIMY AVE MONTREAL QUE	MD CM 4
		CHEIFETZ RUTH 6442 MACDONALD AVE MONTREAL QUE	B A 1 HU 1 2240
		CHEN SHI MWA 525 PRINCE ARTHUR ST W P O BOX 26 HUALIEN TAIWAN CHINA	M ENG 1 VI 4 0017

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CHEN RAYMOND CHUNG H 528 PRINCE ARTHUR ST W 44 PRINTING HOUSE DUDELL ST HONG KONG	B ENG CIV 3 VI 4 0017	CHISHOLM IAN ALEXANDER 151 DUNRAE AVE TOWN OF MT ROYAL QUE	B SC 1 RE 8 2266
CHENEY HAZEL ROBINSON 900 ENGLISH ST TERREBONNE HEIGHTS QUE	J TCHRS	CHISHOLM WILLIAM J T BRITTAIN HALL BOX 326 INGERSOLL ONT	B SC AGR 2
CHENG LUNG 3519 HUTCHISON ST MTL NO 8 LANE 230 HOPING EAST RD SECTION 1 TAIPEI TAIWAN CHINA	M ENG 1	CHISLETT ANN J 2175 HANOVER RD TOWN OF MT ROYAL QUE	B SC 1 RE 8 5481
CHENG SHUN CHEUNG 3518 CLARK ST MTL 60 TAI HANG RD HONG KONG	B SC 3 VI 5 9073	CHIU KEVIN KAM 3484 HUTCHISON ST MTL 34L BRAGASCUIT 2ND FL KOWLOON HONG KONG	B SC 2 VI 4 9082
CHENG SHUN YUE 3547 HUTCHISON ST MTL 60 TAI HANG RD HONG KONG	B COM 2	CHIU MAN YIU HARRISON 3602 DUROCHER ST APT 9 P.O. BOX 382 STATION B MONTREAL QUE	B COM 2
CHERNIAVSKY FELIX B 3616 OXENDEN AVE MTL 3637 ANOUS DR VANCOUVER 9 B C	B A 1 VI 9 1733	CHIU SHIM YAT SYLVESTER 5560 VICTORIA AVE APT 4 69E ROBINSON AVE GR FL HONG KONG	B SC 4 RE 9 9367
CHESSER JACK FARRELL 34 ST PATRICK ST CHATEAUGUAY QUE	B ENG CIV 3 OX 2 4614	CHO CHU CLAUD BERNARD 3549 LORNE AVE MTL 87 ROBB & ALEXANDER STS GEORGETOWN BRITISH GUIANA	B SC 3 VI 5 0691
CHEUK SHU FAI 3421 SHUTER ST APT 7 MTL 857 MCDERMOT AVE WINNIPEG 3 MAN	PH D 3	CHOPRA GOPI CHAND 480 PRINCE ARTHUR ST MONTREAL QUE	B ENG 2 VI 9 2840
CHEUNG DAVID TUNG CHEE 2049 MCGILL COLLEGE AVE APT 6 MTL 196 JAVA RD 3RD FL HONG KONG	B SC 3	CHOW PAUL LEONG 5895 HUTCHISON ST MONTREAL QUE	B ENG CH 5 CR 1 6853
CHEUNG LILY SO KING 3537 UNIVERSITY ST MTL 31A GRANVILLE RD 2ND FL KOWLOON HONG KONG	MD CM 1 VI 9 8447	CHOW TEIN ALICE 3530 JEANNE MANCE ST MONTREAL QUE	B SC 2 AV 8 1784
CHEVASSUS GERARD G 1114 ELGIN TERR MONTREAL QUE	B ENG EL 3	CHOW WESLEY WAYNE 3541 SHUTER ST MTL 43 CECIL ST TORONTO ONT	B SC 1 VI 2 0892
CHIANG DANIEL 2045 CHOMEDY ST APT 3 MONTREAL QUE	B SC 1	CHOW YUNG L 3530 JEANNE MANCE ST MTL 16 JORDAN RD 1ST FL KOWLOON HONG KONG	B ENG PHY 5 AV 8 1784
CHIANG PATRICK JING W 3575 SHUTER ST MTL 33 MODY RD GR FL KOWLOON HONG KONG	B SC 3	CHOWDHURY GAJINDAR SINGH 3554 ST FAMILLE MONTREAL QUE	B COM 3
CHIK LAWRENCE L C 3706 JEANNE MANCE MTL 124 BOUNDARY ST 2ND FL KOWLOON HONG KONG	B ENG EL 3	CHRISTENSEN DAVID A BOX 128 MACDONALD COLLEGE SUB 11 SASKATOON SASK	M SC 2
CHILAKOS JOHN HUT C 22 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	B SC AGR 3	CHRISTIE DAVID JAMES 3546 SHUTER ST MTL ANDRES PUYOL 1639 MONTEVIDEO URUGUAY	B COM 1
CHIN DAVID TARE WONG 3788 CITY HALL AVE MTL 368 MAIN ST YARMOUTH N S	B ENG EL 4 AV 8 7592	CHRISTIE DUGALD E 1 BELVEDERE RD WESTMOUNT QUE	B SC 2 WE 3 6120
CHIN HARRY LIVINGSTON 2015 MCGILL COLLEGE MTL PALMOUTH P O JAMAICA W I	B ENG 2	CHRISTIE JANET E 1 BELVEDERE RD WESTMOUNT QUE	MD CM 2 WE 3 6120
CHIN OSCAR JAMES 3438 DUROCHER ST MTL DUKE ST PALMOUTH JAMAICA W I	B ENG 1 VI 4 0415	CHRISTIE JOYCE MARY 1 BELVEDERE RD WESTMOUNT QUE	PARTIAL WE 3 6120
CHIN WASHINGTON 3437 HUTCHISON ST MTL 87 CHURCH ST MONTEGO BAY JAMAICA W I	B ENG 1	CHRISTIE MARY ELIZABETH 6875 LA SALLE BLVD MTL 20713 LAKESHORE RD BAIE D'URFEE QUE	B N 2 PO 6 8511
		CHRISTOPHER EDWARD 2050 CLOSSE ST APT 10 BOX 137 RAWDON QUE	B ENG 2
		CHRYSEOLOR CONSTANTINE 1760 DECELLES VILLE ST LAURENT QUE	B ENG CIV 5 RI 7 7297

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CHU CHIU MON 529 PRINCE ARTHUR ST MTL 6 SALISBURY AVE 2ND FL KOWLOON HONG KONG	B ENG MCH 4	CLARK FRANK D R 812 EGAN AVE VERDUN QUE	B SC 2 PO 8 8445
CHU DAM CHANG D 3441 PEEL ST MTL 10 TAI HANG RD 1ST FL HONG KONG	B SC 3 VI 4 0341	CLARK JOHN HOWARD E 58 BRUCE AVE WESTMOUNT QUE	B SC 3 WE 3 5633
CHUE PETER 7502 OUTREMONT AVE MTL 77 KOW WAM KINK VILLAGE KOWLOON HONG KONG	D D B 4	CLARK PAUL M 117 RUE DE TOURAINE PREVILLE QUE	B ENG 2 OR 1 2023
CHUNG TACK MICHAEL 423 PRINCE ARTHUR ST W 19 ARIAPITA AVE PORT OF SPAIN TRINIDAD W I	B SC 2 VI 5 8370	CLARK PETER ERIC 155 LAKEVIEW LAKESIDE QUE	B SC 1 OX 5 4771
CHUNG YIN LAP 3415A HUTCHISON ST MTL 267 DES VOEUX RD C HONG KONG	B ENG CIV 4	CLARK PETER OSOODE 3485 MCTAVISH ST MTL 463 BROADVIEW AVE OTTAWA ONT	B ENG PHY 5 VI 9 0141
CHMPRUN TERRY PHILLIP BRITTAIN HALL 1220 CARDINAL ST VILLE ST LAURENT QUE	B ED P ED 2	CLARK PETRONELLA ROYAL VICTORIA COLLEGE HINDHAYES ST SOMERSET ENGLAND	B SC 2 VI 2 0847
CIACKA ANATOLIS 6666 21ST AVE MONTREAL 36 QUE	B ENG 1 RA 7 6316	CLARK SUZANNE HENRIETTE LAFARD HALL BOX 487 STE AGATHE DES MONTS QUE	B SC AGR 4
CICIRELLO GIACOMO 6713 PAPINEAU AVE MONTREAL QUE	B A 2 RA 8 7486	CLARKE BRUCE DICKENSON 164 BROCK AVE N MONTREAL WEST QUE	B ENG 1 HU 4 9118
CIEREMANS ROBERT HUT C 8 MACDONALD COLLEGE BTE ANNE DE BELLEVUE QUE	B SC AGR 1	CLARKE FREDERICK BRUCE 5812 PALMER AVE COTE ST LUC QUE	B ENG 1 HU 4 8552
CIOPPA FORREST J C 3851 UNIVERSITY ST MTL 17 WEST PINE ST AUBURNDALE 66 MASS USA	MD CM 2	CLARKE HAROLD DIGBY T 449 STANSTEAD CRES TOWN OF MT ROYAL QUE	B CL 4 RE 7 5971
CIOTOLA JOSEPH GEORGES 155 MOZART AVE E MONTREAL QUE	B A 4 CR 6 5597	CLARKE JOHN GORDON 3647 UNIVERSITY ST MTL WORTHY PARK EWARTON P O JAMAICA T W I	B ENG EL 4 VI 9 2806
CIPRICK WILLIAM J 4870 MAPLEWOOD AVE MTL BOX 704 POWELL RIVER B C	MED DIPL RE 1 8338	CLARKE KARL CHARLES R 3641 UNIVERSITY ST MTL 242 HUNTER ST W PETERBOROUGH ONT	B SC 2 VI 9 0593
CITRIN JACOB 3851 UNIVERSITY ST MTL 24 HACHIYAMA SHIBUYA KU TOKYO JAPAN	B A 3	CLARKE LOREN SELBOURNE ISLINGTON JAMAICA W I	B ENG CIV 3
CLAMEN ALLEN 8575 GOVER ST MONTREAL QUE	B ENG CH 4 RE 9 0330	CLARKE WILLIAM BRUCE 3508 UNIVERSITY ST MTL 38 BELVIDERE ST LENNOKVILLE QUE	B ENG MCH 3 VI 5 4873
CLAMEN STANLEY 5295 KING EDWARD AVE MONTREAL QUE	B COM 4 HU 9 3119	CLATTENBURG ANNE ROYAL VICTORIA COLLEGE 705 VERNON RD PHILADELPHIA 19 PENNA USA	B SC 4 VI 2 0265
CLARK LIONEL ARTHUR 5371 RANDALL AVE APT 6 GREEN ISLAND P O JAMAICA W I	B SC 4 HU 9 8140	CLAUS HANS JORG 3520 LORNE AVE MTL UTERKER HAGEN 33 SAARBRUCKEN 1 GERMANY	PH D 2 VI 5 2525
CLARK AZELIE DE LENDRECIE 1885 MCOREGOR ST APT 28 93 WELLINGTON ST KINGSTON ONT	B L B 1	CLAUSEN EVERETT ALLAN 417 PRINCE ARTHUR W MTL BROWNSBURG QUE	B SC 1 VI 9 9038
CLARK BRUCE GEORGE 114 RADCLIFFE RD MONTREAL WEST QUE	B A 1 HU 9 6070	CLAYTON JOAN E 250 LANEDOWNE AVE MONTREAL QUE	B SC 3 WE 5 1084
CLARK ELIZABETH ELLEN MACDONALD COLLEGE BISHOPTON QUE	3 TCHRS	CLEARY ROBERT MICHAEL 8664 HENRI JULIEN MONTREAL QUE	B ENG 1 DU 8 0462
CLARK ERIC LEE 3015 SHERBOOKE ST W APT 406 MTL P O BOX 868 MALARTIC QUE	B CL 3 WE 2 3268	CLEAVER EDWARD JOHN 2295 OXFORD AVE MONTREAL 28 QUE	B A 2 HU 6 6587
		CLEGG MARGARET EDITH 651 VICTORIA AVE WESTMOUNT QUE	B A 4 HU 6 1434
		CLEGHORN AILIE M 3160 ST SULPICE RD MONTREAL QUE	B A 2 WE 3 5000

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CLEGHORN JOHN E 564 VICTORIA AVE WESTMOUNT QUE	B COM 2 HU 6 4419	COCKHILL MELVYN EDWARD 5161 QUEEN MARY RD APT 7 MONTREAL QUE	B SC 4 HU 8 8194
CLEMENT DOROTHY E 4391 WILSON AVE MONTREAL QUE	B ED 3 HU 4 1360	CODE BARRY LORNE 4530 MARCIL AVE MONTREAL 28 QUE	B ENG EL 3 HU 6 4565
CLEMENT FRANCOIS REIQUE 3440 PEEL ST MONTREAL QUE	B ENG MI 4	COEN IRVING I 3786 KENT AVE MTL P O BOX 339 WINDSOR Nfld	D DS 4
CLEMENTS PATRICIA JOAN MACDONALD COLLEGE 630 GAINSBOROUGH AVE OTTAWA ONT	B SC AGR 1	COGAN MURRAY IRVING 4438 KENT AVE MONTREAL QUE	B ENG MCH 5 RE 7 7188
CLENMAN JOEL 5729 NORTHMOUNT AVE MONTREAL 26 QUE	B ENG EL 4 RE 3 7020	COHEN ABRAHAM HASCAL 5975 WILBERTON AVE MONTREAL QUE	B ENG EL 3 RE 8 8421
CLERMONT JAMES L 177 GOUIN BLVD ST JOHNS QUE	B ENG CIV FI 6 5356	COHEN ALAIN JACQUES J 1216 LAJOIE AVE MONTREAL QUE	B A 2 CR 7 0916
CLEVEN BRUCE 223 LAZARD AVE TOWN OF MT ROYAL QUE	B A 2 RE 7 3118	COHEN CARYL LOIS 637 LANSDOWNE AVE WESTMOUNT QUE	B A 2 HU 1 6740
CLIBSON BROOKE 507 VICTORIA AVE WESTMOUNT QUE	B SC 2 WE 2 0510	COHEN DOROTHY ESTHER 4880 CIRCLE RD MONTREAL QUE	B A 4 HU 4 1991
CLIBSON PETER BROOKE 507 VICTORIA AVE WESTMOUNT QUE	M SC 1 WE 2 0510	COHEN EARL SIMON 642 VICTORIA AVE WESTMOUNT QUE	B A 1 HU 6 7644
CLIFF WENDY L MACDONALD COLLEGE 26 LANSDOWNE GARDENS PTE CLAIRE QUE	B SC H EC 2	COHEN GERALD 5250 PARK AVE APT 1 MONTREAL QUE	B ENG EL 4 CR 7 6013
CLIFFORD FRANCES M STEWART HALL 37 ROOSEVELT AVE APT 403 TOWN OF MT ROYAL QUE	2 TCHRS 1	COHEN GERALD ALLAN 403 ST JOSEPH BLVD W APT 18 MONTREAL 8 QUE	B A 3 CR 7 5073
CLIFFORD GEORGE E 3515 DUROCHER ST APT 64 MONTREAL QUE	B D 3 VI 2 1608	COHEN GERARD ELIE 1216 LAJOIE AVE OUTREMONT QUE	B SC 3 CR 7 0916
CLOSE ANTHONY DEREK 1475 CALEDONIA RD TOWN OF MT ROYAL QUE	B ENG EL 3	COHEN HARRY BRUCE 3531 LORNE AVE MTL 55 PROSPECT ST ROCKVILLE CONN USA	M A 1
CLOUTIER WILLIAM LOUIS M 3473 UNIVERSITY ST MTL 120 ELM ST GRANDY QUE	B SC 3 VI 9 1791	COHEN HOWARD THOMAS 637 LANSDOWNE AVE WESTMOUNT QUE	B COM 3 HU 1 6740
CLOWES ISOBEL P 695 LAURENTIN BLVD VILLE ST LAURENT QUE	MUR B 2 RI 4 0848	COHEN JERALD MILTON 929 HARTLAND AVE OUTREMONT QUE	B A 1 RE 8 5030
CLYKE EMILY CHRISTINE 5325 WEST BROADWAY MONTREAL QUE	M S W 2 HU 8 5783	COHEN JESSE JOHN 4615 COTE ST CATHERINE MONTREAL QUE	M SC 1 RE 8 1216
COATES ANNE LAURA 630 PRINCE ARTHUR ST APT 5 MTL 89 LONDON ST HAMILTON ONT	GRAD DIP 1 VI 5 9472	COHEN JOSHUA M 5615 DUROCHER MONTREAL QUE	B SC 2 CR 7 0389
COBS GEORGE MARK 6630 PIE IX BLVD MONTREAL QUE	MED DIPL 1	COHEN JUDITH MERYL ROYAL VICTORIA COLLEGE 6420 ALGON AVE PHILA 11 PA USA	B A 1 VI 9 0030
COBRIN RHODA 4645 ST KEVIN AVE MONTREAL QUE	B A 2 RE 3 8781	COHEN LORNE S 5526 TRANS ISLAND MONTREAL 29 QUE	B SC 2 RE 7 2860
COCCIARDI PAUL E 5932 CHATEAUBRIAND MTL 82A DANTE ST MONTREAL QUE	B ENG 2 CR 1 1476	COHEN MARLENE S 37 ST GEORGE ST STE ANNE DE BELLEVUE QUE 424A ST JOSEPH BLVD W OUTREMONT QUE	2 TCHRS 2
COCCO JOHN MICHAEL 3654 HUTCHISON ST MTL 35 RIVER ST MAYNARD MASS USA	MD CM 1 VI 5 4468	COHEN MARVIN RODNEY 3471 PEEL ST MTL 1585 BOMLEVARD NEW HAVEN CONN USA	D DS 1 VI 9 0133
COCHAUX PIERRE S A BRITTAIN HALL MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	B SC AGR 4	COHEN MIRIAM YODITS 2275 NOEL ST VILLE ST LAURENT QUE	M A 1 RI 7 3116
		COHEN MOE MORRIE 5637 DARLINGTON AVE MONTREAL QUE	B COM 4 RE 7 5720

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COMEN MONROE WALLACE 3060 LINTON AVE APT 5 MONTREAL QUE	B SC 3 RE 3 9032	COLLINS STEPHEN BRIGGS 542 PRINCE ARTHUR ST W P O BOX 241 BRIDGETOWN BARBADOS	B SC 2
COHEN MORI WALTER 6381 DE VIMY AVE MONTREAL QUE	B SC 1 RE 9 0281	COLLYER VIVIAN 162 ROY ST APT 6 VILLE LE MOYNE QUE	M S W 1 OR 1 1496
COHEN PAUL BARRY 5940 MONKLAND AVE APT 12 MONTREAL QUE	B C L 1 HU 4 2646	COLLYER JOHN WHITLEY 557 LANSDOWNE AVE WESTMOUNT QUE	B SC 1 HU 1 6153
COHEN RICHARD W 3660 PEEL ST APT 6 MTL 20 STILL ST BROOKLINE 46 MASS USA	MUS B 1	COLMAN ARTHUR J 4866 WILSON AVE MONTREAL 29 QUE	B COM 1 HU 1 5976
COHEN ROBERT IRWIN 5570 BRADFORD PL MONTREAL QUE	B SC 1 RE 8 9287	COLMAN NEIL DAVID 3483 PEEL ST MTL 20 FOURTH ST ATTLEBORO MASS U S A	B A 1 VI 2 0882
COHEN ROCHELLE DIANA M 5015 CIRCLE RD MONTREAL QUE	M S W 1 RE 1 1903	COLTHURST GEORGE WILLIAM 3575 HUTCHINSON ST MONTREAL QUE	B ARCH 3
COHOS SANDRA 1030 HODGE ST VILLE ST LAURENT QUE	3 TCHRS RI 4 3298	COLUMBUS NATHAN 5022 COTE DES NEIGES APT 3 MTL 3 FRUG ST TEL AVIV ISRAEL	B SC 2 RE 9 9075
COLBY CHARLES WILLIAM 4040 TRAFALGAR RD MONTREAL QUE	B ENG MCH 3 WE 2 9685	COMBE HENRY CECIL 1436 ST MARK ST MTL EARNSHILL HAMBRIDGE LANGPORT SOMERSET ENGLAND	B COM 2 WE 7 5663
COLBY ROBERT LOVAT 4040 TRAFALGAR RD MONTREAL QUE	B SC 1 WE 2 9685	COMPAGNONE SALVATORE J ST MARY S HOSPITAL 48 CHESTERFIELD HYDE PARK MASS USA	MD CM 4
COLE JOHN B 9 LANSDOWNE QDNS PTE CLAIRE QUE	B ENG 2 OX 5 5952	COMTOIS GERARD JOSEPH P E 7575 GARNIER MONTREAL 35 QUE	B ENG CIV 5 RA 9 1271
COLE NORMAN WILFRED 35 ELLERDALE RD HAMPTON QUE	B ENG CIV 4 HU 4 2412	CONDY HARVEY ALEXANDER 972 CLIFTON AVE MONTREAL 28 QUE	B ENG CH 5 HU 6 3314
COLE PERRY WALKER 4566 MELROSE AVE MTL 10 MADRONA AVE ROSE CALIF USA	B SC 2 HU 6 1364	CONLIFFE MARK S 3473 UNIVERSITY ST MTL P O BOX 53 PAKENHAM ONT	PARTIAL VI 9 1791
COLE ROY VERNON DOUGLAS HALL 11 PRINCESS AVE CORNER BROOK NFD	B SC 2 VI 4 0977	CONNELL MARTIN PHILIP 355 OLIVIER AVE WBSMT 7 THORNWOOD RD TORONTO ONT	B ENG 1 WE 2 2691
COLEMAN JOHN CHRISTOPHER WILSON HALL LATTENBELLS DITCHING SUBSEX ENGLAND	B A 2 VI 4 0624	CONNELLY PAUL A 3456 NORTHCLIFFE MTL 2180 NICOLAS PERROT ST THREE RIVERS QUE	B ENG CH 3 HU 4 1923
COLEMAN MARILYN THERESA 3420 DRUMMOND ST MTL 251 MYRTLE AVE BRIDGEPORT 4 CONN USA	PARTIAL VI 4 0663	CONNELLY SUSAN PATRICIA MACDONALD COLLEGE 2180 NICOLAS PERROT ST THREE RIVERS QUE	2 TCHRS 1
COLES NORMAN WILLIAM 521 PRINCE ARTHUR ST W 2 PHILLIP ST BLAKEHURST SYDNEY N S W AUSTRALIA	PH D 3 VI 9 0170	CONNOR CLARE FRANCES MACDONALD COLLEGE 112 51ST AVE LACHINE QUE	2 TCHRS 1
COLLINS DAVID BRIGGS 542 PRINCE ARTHUR ST W P O BOX 241 BRIDGETOWN BARBADOS T W I	B COM 4	CONNOR TERENCE POWELL 1849 LINCOLN AVE APT 8 MONTREAL QUE	MED DIPL 1
COLLINS LLOYD GERALD BOX 184 MACDONALD COLLEGE R R 6 CORBEN ONT	B SC AGR 4	CONNORS BOYCE A 2137A BLEURY APT 2 MTL P O BOX 5 BRACEBRIDGE ONT	B A 1
COLLINS MARTHA ROYAL VICTORIA COLLEGE 2108 WOODLAWN AVE WILMINGTON 6 DELAWARE U S A	B A 1 VI 2 0597	CONOCHIE LARRY BLYTHE 3581 ST FAMILLE ST MTL 34 JOHN ST GALT ONT	B SC 1 VI 5 6057
COLLINS PATRICIA LOUISE MACDONALD COLLEGE 4407 CARIGNAN AVE MONTREAL 5 QUE	2 TCHRS 1	CONRADT INGER HEIBERG MACDONALD COLLEGE 326 ELLERTON AVE TOWN OF MT ROYAL QUE	2 TCHRS 1
		CONSTANTIN JULIEN 8544 BERRI ST MONTREAL QUE	PH B 2 DU 8 5090 5033

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COOK CHARLES STUART 1441 DRUMMOND ST MTL BOX 282 FARNHAM QUE	B ENG PWR 5	COOPERSTONE HARVEY M 3926 CARLTON AVE MONTREAL 26 QUE	B C L 3 RE 8 1083
COOK CHARLES WRIGHT 45 WICKSTEED AVE MTL OAKS CORNERS NEW YORK USA	M SC 2 RE 8 1495	COPE DONALD F 13 NORTHCOTE RD HAMPSTEAD QUE	B C L 4 HU 4 6859
COOK GORDON RAYMOND 246 CARLYLE AVE TOWN OF MT ROYAL QUE	B SC 3 RE 8 3886	COPE RALPH BRUCE 3473 UNIVERSITY ST MTL 56 CAMERON ST KINGSTON ONT	B D 1 VI 9 1791
COOK HELEN ELIZABETH B STEWART HALL 4653 ST URBAIN ST MONTREAL 14 QUE	B TCHRS 1	COPELOVITCH BERNARD 4414 CIRCLE RD MONTREAL QUE	B SC 3 RE 8 2396
COOK HERBERT GEORGE 438 STRATHCONA AVE WESTMOUNT QUE	M A 1 WE 7 3898	COPEMAN JOAN ANN ROYAL VICTORIA COLLEGE ROYAL MONTREAL GOLF CLUB ILE BIZARD QUE	B SC 2 VI 9 0858
COOK JOAN IRENE MACDONALD COLLEGE BOX 34 COOKSHIRE QUE	3 TCHRS	COPLAN STEPHEN 3483 PEEL ST MTL 357 SOMERSET ST E OTTAWA ONT	B COM 4 VI 8 0882
COOK MARGARET E 216 EDISON AVE ST LAMBERT QUE	B TCHRS 2 OR 1 1524	COPLAND ELEANOR P 610 VICTORIA AVE WESTMOUNT QUE	B SC P OT 2 HU 4 7434
COOK ROBERT HARRY BRITTAIN HALL 3032 CHERRIER RD ILE BIZARD QUE	B SC AGR 1	COPLAND GEORGIA DEAN 610 VICTORIA AVE WESTMOUNT QUE	M B W 1 HU 4 7434
COOKE GILMORE GORDON 6965 45TH AVE MONTREAL 36 QUE	B ENG EL 4 CL 6 7802	COPLEY DONALD R QUEEN ELIZABETH HOSPITAL WIL DON SA LODGE R R 2 STAYNER ONT	MD CM 4
COOKE PATRICIA MARGARET 4845 VICTORIA AVE MONTREAL QUE	PH D 3 HU 9 1382	COPP JOHN TERRY 2261 KINGSTON AVE MONTREAL QUE	M A 1 HU 4 0940
COOKSON PETER J 4990 GROSVENOR MONTREAL QUE	B COM 4 RE 3 0187	COPPIN JOSEPH LEROY 5255 WALKLEY AVE MTL ELEANOR ST CHAGUANAS TRINIDAD W I	B SC 3 HU 8 7859
COOPER ANTHONY JOHN M 3569 ST FAMILLE ST MTL 47 BAKERSWELL SALCOMBE B DEVON ENGLAND	B A 4	CORBETT JOHN R M 2222 ST MATTHEW ST MONTREAL QUE	B D 3 WE 3 7002
COOPER CALVIN GEORGE 8244 SHERBROOKE ST E MTL P O BOX 1228 NASSAU BAHAMAS	B ENG CIV 3	CORDEAU CYNTHIA JOAN 408 METCALFE AVE WESTMOUNT QUE	B A 1 WE 2 262R
COOPER JUDITH ANNE LAIRD HALL 600 VICTORIA AVE MONTREAL QUE	B ED 1 HU 6 6169	CORDELL ARTHUR J 5721 WENTWORTH AVE COTE ST LUC QUE	B A 4 HU 4 8547
COOPER MARJORIE DAWN MACDONALD COLLEGE 970 KENNEDY ST VILLE ST LAURENT QUE	3 TCHRS	CORDEN MARY ELIZABETH 86 PERCIVAL AVE MONTREAL WEST QUE	M B W 1 HU 4 6226
COOPER MARY LOUISE ROYAL VICTORIA COLLEGE 42 PARK AVE OAKVILLE ONT	B A 3 VI 2 0180	CORDES BARBARA MACDONALD COLLEGE 4750 ST KEVIN ST APT 3 MONTREAL QUE	3 TCHRS
COOPER MIRIAM SYLVIA 600 VICTORIA AVE WESTMOUNT QUE	M SC 1 HU 6 6169	CORIJNEN GUIDO C M 3478 MONTAVISH ST MTL BERGENHEIM NDBE PAD VOSSERLAER TURNMOUT BELGIUM	B ENG 2 VI 2 7412
COOPER NATALIE HAZEL 4780 MERIDIAN AVE MONTREAL QUE	B A 3 HU 4 5788	CORKEN ELIZABETH 2 GABLES COURT DEACONSFIELD QUE	B A 3 OK 5 6938
COOPER ORA MAURINE N ROYAL VICTORIA COLLEGE P O BOX 130 HAMILTON BERMUDA	B A 1 VI 2 0829	CORLEY MORA T 703 ROSLYN AVE WESTMOUNT QUE	M A 2 HU 6 6766
COOPER RODERICK MELVIN 429 PRINCE ARTHUR ST W APT 5 MTL 850 GARFIELD ST WINNIPEG 10 MAN	PH D 3	CORMIER PAULE M B 922 CHERRIER MONTREAL QUE	B C L 2 LA 3 5250
COOPERSTEIN SIDNEY 4319 ESPLANADE AVE APT 3 MONTREAL QUE	PARTIAL VI 4 7325	CORNELL MARGUERITE L STEWART HALL 35 AURORA AVE PTE CLAIRE 33 QUE	B ED 2
		CORNISH DONALD JOHN 352 GRENFELL AVE MONTREAL 16 QUE	B A 1 RE 1 2668

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CORNISH JAMES BRIAN 144 THORNTON AVE TOWN OF MT ROYAL QUE	B A 1 RE 3 0955	COUPER ALISON MITCHELL ROYAL VICTORIA COLLEGE SOMERS COVE SHELLY BAY BERMUDA	B A 4 VI 2 0526
CORP STUART WILLIAM 5419 DECARIE BLVD APT 7 MONTREAL QUE	B ENG CIV 4 HU 4 1082	COUPLAND DENIS E 2890 LEPAILLER ST MONTREAL 5 QUE	B A 2
CORRY JAMES GEOFFREY 3223 CEDAR AVE WESTMOUNT QUE	B COM 1 WE 7 0668	COURTNEY CHRISTOPHER E 456 PINE AVE W MTL 875 PARK AVE NEW YORK U S A	B COM 1
CORRY PETER MATTHEW 3223 CEDAR AVE WESTMOUNT QUE	B SC 4 WE 7 0668	COURTNEY JOHN BRITTAIN HALL 511 10TH ST S W CALGARY ALTA	B SC AGR 3
CORSO JOHN 8336 WAVERLY ST MONTREAL QUE	B COM 4 DU 8 8009	COUSENS SHIRLEY 5520 VAN HORNE AVE MONTREAL QUE	2 TCHRS 1 RE 7 5105
COSSER STEPHANIE BERYL ROYAL VICTORIA COLLEGE 103 CHAMPLAIN AVE BOURLAMAQUE QUE	B A 1 VI 9 0030	COUTTS MARGARET C LAIRD HALL 2 MAPLE ST ST PAUL L ERMITE QUE	3 TCHRS 1
COSSETTE MARCEL 2065 PRUD HOMME AVE MONTREAL QUE	B ENG CH 5 HU 8 5193	COWAN DANIEL F DOUGLAS HALL 1516 EDGERTON RD W BRECKSVILLE OHIO USA	MD CM 4
COSTA CARLOS 5643 PHILLIPS AVE MTL AVE PEEKSHING 306 SAN ISIDRO LIMA PERU	B ENG 1 RE 1 1300	COWAN JOHN D 134A LAKESHORE RD LAKESIDE QUE 327 NORTH SHORE BLVD E BURLINGTON ONT	B SC AGR 2 OX 5 3809
COSTANTINI DOMINIC J 959 PRUD HOMME AVE MONTREAL QUE	B ENG CIV 5 HU 6 7192	COWANE JOHN ROBERT 17 HAMPTON Gdns PTE CLAIRE QUE	B ENG 2 OX 5 9563
COSTIS DENISE LAIRD HALL 697 CAVEN CIRCLE MONTREAL 9 QUE	M S D DIP	COWIE ARTHUR ROBERT 3769 DRAPER AVE MTL 806 GEORGE ST FREDERICTON N B	PARTIAL HU 1 4324
COSTOM BRUCE HARVEY 4617 MICHEL BISAUD RD MONTREAL 6 QUE	B SC 1 RE 3 8047	COWLING ROBERT JOHN 551 LANSDOWNE AVE WESTMOUNT QUE	B C L 3 WE 7 2237
COSTOM DOROTHIE CAROLINE 4617 MICHEL BISAUD RD MONTREAL 6 QUE	B A 3 RE 3 8877	COX ALEXANDER WILLIAM 6254 MONKLAND AVE MONTREAL QUE	B COM 3
COTE JEAN YVES 3506 UNIVERSITY ST MTL 18 PLANTE AVE LEVIS QUE	B ENG MET 5 VI 4 0624	COX CYRIL EUGENE 1001 SHERBROOKE ST W MTL C O MRS P POGSON HAPPY VALLEY PEMBROKE BERMUDA	B ENG MCH 5
COTE JOHN E L 3440 PEEL ST APT 43 MONTREAL 2 QUE	B A 3 VI 4 6278	COYLE MARY ANNE 456 PINE AVE W APT 24 2077 WILLISTEAD CRES WINDEOR ONT	B ARCH 5
COTE MARIE A Y 2329 ST LUKE ST APT 14 MONTREAL QUE	M S W 2 WE 5 4138	CRABTREE ANNE R ROYAL VICTORIA COLLEGE 21 WOODRUFF AVE ST CATHARINES ONT	B SC N 3 VI 2 0180
COTLER IRWIN 4750 CARLTON AVE MONTREAL QUE	B A 3 RE 7 5797	CRAIG DONALD A 1284 VISITATION ST MONTREAL QUE	B SC 2 LA 3 2404
COTHAM ROBERT BOLE BRITTAIN HALL R R 1 PEMBROKE ONT	B SC AGR 3	CRAIG DOUGLAS BOOTH 3506 UNIVERSITY ST MTL 1495 MAPLE AVE SHAWINIGAN QUE	B SC 3 VI 4 0624
COTTE ROBERT D 14 BRIARDALE RD HAMPSHIRE QUE	MD CM 4 HU 4 0418	CRAIG JUDITH ANN STEWART HALL 837 54TH AVE LACHINE QUE	B ED 2
COTTON DONALD ROYAL BRITTAIN HALL R R 3 MASCOCHE QUE	B SC AGR 3	CRAIG ROBERT E L DOUGLAS HALL 6924 BLODY RD BALTIMORE 7 MD USA	MD CM 2
COUGHLIN ROBERT GREGORY 3800 WILSON AVE MONTREAL QUE	B ENG EL 4 HU 4 9965	CRAIG SHIRLEY FRANCES GRAY VALLEY QUE	2 TCHRS 1
COULSON GEORGE EMMERSON MACDONALD COLLEGE R R 1 SOUTH GILLIES ONT	B SC AGR 1	CRAIG SUSAN MARY STEWART HALL 605 CLARKE AVE WESTMOUNT QUE	2 TCHRS 1
COULTER RONALD LYNNE BRITTAIN HALL R R 3 CAMPELLVILLE ONT	B SC AGR 2		

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CRAIGHEAD WANDA JOY 4095 COTE DES NEIGES RD APT 33 MTL IRETON ST CAMBELLFORD ONT	GRAD DIP 1 WE 7 8052	CRUM EWING DAVID COLIN BRITTAIN HALL KNOCKPATRICK P O JAMAICA W I	B SC AGR 1
CRAIN ERIC ROSS 71 STRATHEARN AVE N MONTREAL WEST 28 QUE	B ENG EL 3 HU 1 2424	CRUICKSHANK LYLE R BRITTAIN HALL LEMESURIER QUE	2 TCHRS 2
CRAM DAVID R 4815 GRAND BLVD MONTREAL QUE	B ENG 2 HU 6 3778	CRUISE CLAIRE PARKER MACDONALD COLLEGE 69 CHATHAM ST LACHUTE QUE	2 TCHRS 1
CRAMER LAWRENCE L 4510 OLD ORCHARD AVE MONTREAL QUE	D D S 3 HU 4 3664	CRUTCHLOW CHARLES F 74 EASTON AVE MONTREAL WEST QUE	B A 1 HU 1 2281
CRAWFORD JOHN ERIC 3241 FOREST HILL AVE APT 20 MONTREAL 26 QUE	PH D 5 RE 3 7321	CRUZ OCTAVIO ALFONSO 3485 MCTAVISH ST MTL STREET 8 CARTAGO COSTA RICA C A	B SC 1 VI 9 0141
CRAWFORD KARL M 3457 SHUTER ST APT 1 MTL 9 REGENT PARK POINTE A PIERRE TRINIDAD W I	B ENG 1 AV 8 9732	CRYSTAL HYMAN JOSEPH 6382 MCLYNN AVE MONTREAL QUE	B A 1 RE 3 3829
CRAWFORD WANDA M E STEWART HALL 485 DE L EGLISE STE FOY QUEBEC CITY 10 QUE	B ED 2	CSORGO MIKLOS 3566 LORNE AVE MONTREAL QUE	M A 1
CREVIER RAYMOND R J 845 OUTREMONT AVE OUTREMONT QUE	B C L 3 GR 8 2531	CUBITT IAN LESLIE BRITTAIN HALL 21 WOODFIELD LN ASHTED SURREY ENGLAND	B SC AGR 2
CRITES RUTH EDITH BOX 700 MACDONALD COLLEGE 4520 KINGSTON AVE MONTREAL 28 QUE	B SC H EC 3	CULLEN GARY MICHAEL E J 4602 DELORIMIER AVE MONTREAL QUE	B A 2 LA 2 5558
CROBER CHARLES DOUGLAS APT C1 MACDONALD COLLEGE BOX 70 MORRISBURG ONT	B SC AGR 4	CULLEN HAZEL FLORENCE MACDONALD COLLEGE R R 5 ORMETOWN QUE	B SC H EC 1
CROBER DONALD CURTIS APT C1 MACDONALD COLLEGE BOX 70 MORRISBURG ONT	B SC AGR 3	CULLEY ERIC KENNETH 8 SPRINGFIELD AVE WESTMOUNT QUE	B ENG 1 WE 2 4354
CROGON JAMES COLDSTREAM 1596 PINE AVE W MTL THE MOLLIES GRAMPOUND CORNWALL ENGLAND	B COM 4 WE 5 0248	CUMYN ADAM PETER FRANCIS 224 SENNEVILLE RD SENNEVILLE QUE	B A 2
CROMBIE CHARLES D S 732 UPPER BELMONT AVE WESTMOUNT QUE	B SC AGR 1	CUNDILL FRANCIS PETER 17 PARKSIDE PL MONTREAL QUE	B COM 4 WE 2 1985
CRONIN ROBERT FRANCIS P 762 LANSLOWNE AVE WESTMOUNT QUE	PH D 2 HU 4 1025	CUNDILL HERVEY 3474 HUTCHISON ST MTL HUDSON HEIGHTS QUE	B A 2
CROPPER JAMES W 1617 CRAWFORD BRIDGE AVE VERDUN QUE	B ENG 2 PO 8 6132	CUNNINGHAM ANDREW BRITTAIN HALL 3644 PEEL ST MONTREAL QUE	B SC AGR 1
CROSS CARSON JON MACDONALD COLLEGE GLENSGAE KIRKS FERRY QUE	B SC AGR 1	CUNNINGHAM HAROLD P 3851 UNIVERSITY ST MTL R R 3 LEAMINGTON ONT	MD CM 3 VI 2 1986
CROSS JUSTIN A 3225 RIDGEWOOD APT 405 WEST MEADOW RD ROCKLAND MAINE USA	MD CM 4 RE 7 1556	CUNNINGHAM JANE C STEWART HALL 260 BROCK AVE N MONTREAL WEST QUE	2 TCHRS 2
CROSS ROGER 4059 GAGE RD MONTREAL QUE	B SC 4 WE 5 8744	CUNNINGHAM THOMAS A BRITTAIN HALL 260 BROCK AVE N MONTREAL WEST QUE	B SC AGR 2
CROWE MARY ROSALIND ROYAL VICTORIA COLLEGE 3761 OLIVER ST N W WASHINGTON 15 D C USA	B A 1 VI 9 0993	CUPCHIK WILLIAM 3850 COTE ST CATHERINE APT 4 MONTREAL QUE	B ENG EL 4 RE 3 0129
CROWELL ARETA VALMA H 5340 DUDEMAINE ST APT 12 MONTREAL 9 QUE	PH D 3 RI 4 6650	CUPCHIK ZELDA 3850 COTE ST CATHERINE APT 4 MONTREAL QUE	B C L 2 RE 3 0129
		CURLEY RICHARD TURNER 1463 BISHOP ST APT 2L PIEK ST WEST DENNIS MASS USA	B A 4 VI 5 1822

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CURRIE MARIANNE P ROYAL VICTORIA COLLEGE 16353 REDINGTON DR ST PETERSBURG 8 FLORIDA USA	VI 2 0113 2	DALFEN SHEILA MIRIAM 2465 MAJOR ST VILLE ST LAURENT QUE	B SC 2 RI 8 8125
CURRIE RICHARD NEIL 3482 MCTAVISH ST MTL 19 ARCADE ST WHITINSVILLE MASS U S A	VI 4 0059 1	DALGARD JOHN WALTER 9 WATEREDGE AVE PTE CLAIRE QUE	B SC 4 OX 5 3469
CURTIS RONALD B B 3281 FOREST HILL RD MONTREAL QUE	MED DIPL 1 RE 1 8440	DALIBARD JACQUES RENE M 1205 CRESCENT ST APT 8 MONTREAL QUE	B ARCH 2 UN 6 5128
CUSHING MARIAN CATHERINE 35 BALLANTYNE AVE N MONTREAL WEST QUE	B A 4 HU 6 4908	DALLAS STEPHEN HENRY 3561 LORNE AVE APT 8 MTL MAQUERIE FAIRYLANDS PEMBROKE BERMUDA	B COM 1
CUTHBERT BARBARA FRANCES 37 ROOSEVELT AVE TOWN OF MT ROYAL QUE	B A 4 RE 7 1416	DALY DENIS B 2457 NOTRE DAME ST W MONTREAL QUE	B SC AGR 2 WE 3 8555
CUTLER JUDITH 120 LE CAVALIER ST VILLE ST LAURENT QUE	B A 2 RI 4 3261	DALY KATHLEEN MARQUERITE 3800 DUPUIS AVE APT 21 MONTREAL QUE	GRAD DIP 2 RE 3 4841
CYMERMAN EILEEN 4412 CITY HALL AVE MONTREAL QUE	3 TCHRS AV 8 5517	DAMESHEK EARL FRED 2322 BEDFORD RD OUTREMONT QUE	B A 3 RE 7 7484
CYRENNE NOEL 300 SHERBROOKE ST W MTL 1872 ST PHILIPPE ST THREE RIVERS QUE	B ENG CH 5 AV 2 0560	DAMIANO RICHARD G 3638 DUROCHER ST MONTREAL QUE	D D S 4 AV 8 8430
CYTRYNSAUM MICHAEL 5840 WESTBURY AVE MONTREAL QUE	B A 3 HU 4 6330	DAMTE MASSEALE 3667 JEANNE MANCE ST MTL UNIVERSITY COLLEGE ADDIS ABABA ETHIOPIA	B ENG CIV 4 AV 8 0874
CYTRYNSAUM SOLOMON 38 JOYCE AVE MONTREAL QUE	M SC 1 CR 2 4618	DANA JOSEPH 3420 PEEL ST MTL 7 RUE LALO PARIS 16 FRANCE	B ENG EL 4 VI 2 0343
CYTRYNSAUM STANLEY 5273 BORDEN AVE MONTREAL QUE	B C L 4 HU 9 7963	DANA LUCIEN YOUSSEF 3420 PEEL ST MTL 31 RUE RAYMOUARD PARIS 16 FRANCE	B ENG EL 4
D		DANCEY JOHN TRAVIS 4015 WILSON AVE MONTREAL 28 QUE	B SC 3 HU 4 5761
DASICH LYUBICA 456 PINE AVE W APT 37 3285 SHERBOURNE RD DETROIT MICH USA	MD CM 4 VI 4 8382	DANIELS PHYLLIS DOROTHY 4535 MELROSE AVE MONTREAL QUE	M B W 2 HU 4 3691
DAMMEN M PETER 3608 RIDGEWOOD AVE APT 203 MONTREAL QUE	B A 2 RE 9 5635	D ANJOV MARIE HELENE M 2821 MAPLEWOOD AVE APT 8 MTL 25 RUE ST JEAN RIMOUSKI QUE	M A 1 RE 1 8951
DAMMS PATRICIA MAY MACDONALD COLLEGE R R 1 HUNTINGDON QUE	2 TCHRS 1	DANNY BRIAN HARRY 4837 MACKENZIE AVE MONTREAL QUE	B A 2 RE 7 2465
DAINOW REBECCA E 4355 MADISON AVE MONTREAL 28 QUE	M B W 1 HU 4 4081	DAOU RONALD ALFRED 1080 OSBORNE ST MONTREAL QUE	M A 1
DALBEO PETER RONALD J 4056 PARC LAFONTAINE MONTREAL QUE	B ENG MET 3 LA 4 3979	DARABANER CAROLE LEE 5101 LACOMBE AVE MONTREAL QUE	B ENG CH 4 RE 7 3017
DALCHAU ALDEWIN PETER 495 MOUNT ROYAL W MTL BOX 381 REDOLIFF ALBERTA	B ENG 2 CR 4 7681	DARADON PAULINE 525 STUART OUTREMONT QUE	PARTIAL CR 4 1197
DALES ROBERT JOHN 1823 CANORA RD MONTREAL 16 QUE	B SC 2 RE 3 6383	DARDI AGOSTINO KINGSTON GENERAL HOSP KINGSTON ONT	MED DIPL 2
DALFEN ARTHUR DAVID 3495 MARLOWE AVE MONTREAL QUE	B COM 4 HU 4 6315	DARGIE HARRIET JANE ROYAL VICTORIA COLLEGE 18 ORCHARD ST GREENFIELD MASS USA	B A 3 VI 2 0477
DALFEN BEN ZION 4126 CUNARD AVE MONTREAL QUE	M B W 1 RE 7 8124	DARLING JUDITH KATHLEEN 3060 BRESLAY RD MONTREAL QUE	B SC 4 WE 2 4697
DALFEN ROSALIND 3495 MARLOWE AVE MONTREAL QUE	B COM 4 HU 4 6315	DARLING LYNDIA MARGARET 955 48TH AVE LACHINE QUE	2 TCHRS 1 ME 7 4608

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DARLING MARY BALFOUR LAIRD HALL 3000 BREGLEY RD MONTREAL QUE	2 TCHRS 2	DAVIES GEORGE EDWARD BRITTAIN HALL COLONIAL ACRES R R 4 HUNTINGDON QUE	B SC AGR 1
DARLING PETER WILSON 68 ABERDEEN AVE MONTREAL 6 QUE	B ENG MCH 5 HU 4 2985	DAVIES SUSAN A ROYAL VICTORIA COLLEGE 4 CAMBRIDGE RD SAIE D URREE QUE	B ED 4 VI 2 0526
DARROW ORTHA JANE ROYAL VICTORIA COLLEGE 608 GIRALDA DR LOS ALTOS CALIF USA	B SC P OT 1 VI 2 0829	DAVIGNON JEAN F G J 3185 DE BERIGNY MONTREAL 26 QUE	M SC 1 RE 8 3829
DARTNELL ALBERT L 6955 FIELDING APT 408 MONTREAL QUE	M A 1 HU 4 2788	D AVIGNON MARY F LAIRD HALL 258 WELLINGTON N WOODSTOCK ONT	B SC H EC 1
DAS GUPTA N C 3618 UNIVERSITY ST MTL 810 RAJA DINENDRA ST MANIKTOLLA CALCUTTA INDIA	M ENG 2 VI 4 0888	DAVIS BARBARA ANN LAIRD HALL 1536 TRUSCOTT RD CLARKSON ONT	B SC H EC 1
D AURIOL HENRY CHARLES L 4875 DUFFERIN RD APT 416 MONTREAL QUE	B ENG EL 4 HU 1 9941	DAVIS DONALD WALTER 268 LOCKHART AVE TOWN OF MT ROYAL QUE	B A 1 RE 7 4749
DAVEY OWEN ANTHONY 11607 LAVIGNE RD MTL 668 CHERRY DR SARNIA ONT	B ENG 1 FE 4 4807	DAVIS FREDERICK ANDREW 745 39TH AVE LACHINE QUE	MD CM 1 ME 7 5303
DAVIAU JOSEPH OLIVER M 3785 JEAN TALON E VILLE ST MICHEL QUE	B SC 1 RA 2 7815	DAVIS HARRY GLEN 3485 MCTAVISH ST MTL MARION BRIDGE CAPE BRETON N S	B A 4 VI 4 0424
DAVID JEAN 4660 EARNSCLIFFE AVE MONTREAL 28 QUE	B C L 2 HU 9 4847	DAVIS JOHN WILLET 2940 KIRKFIELD AVE MONTREAL 16 QUE	B ENG 1 RE 8 4184
DAVID MICHAEL 119 LECAVALIER ST VILLE ST LAURENT QUE	B SC 1 RI 7 6317	DAVIS JUDITH MCLENNAN HALL BOX 395 HUDSON QUE	B SC P OT 3 VI 2 0044
DAVID PETER 3569 ST FAMILLE ST MONTREAL QUE	PARTIAL VI 2 2896	DAVIS KENNETH ANDREW 3851 UNIVERSITY ST MTL 7 STRATHEARN RD TORONTO ONT	B SC 4
DAVID ROBERT J C 119 LECAVALIER ST VILLE ST LAURENT QUE	D D S 1 RI 7 6317	DAVIS LAWRENCE 4609 HUTCHISON ST MONTREAL QUE	B SC 2 CR 1 5802
DAVIDNEISA ROGER H 4980 CLANRABALD AVE MONTREAL QUE	MD CM 3	DAVIS LESTROD ALFONSO 2052 JEANNE MANCE ST MTL ST JOHNSTON VILLAGE ANTIGUA T W I	MD CM 1 AV 8 1019
DAVIDOVITCH GLORIA LAIRD HALL 441 DUFFERIN RD HAMPSTEAD QUE	3 TCHRS	DAVIS MARGARET JANE 268 LOCKHART AVE MONTREAL 16 QUE	B SC H 1 RE 7 4749
DAVIDOW FRANCES 4600 CIRCLE RD MONTREAL QUE	2 TCHRS HU 1 6050	DAVIS MARY ELIZABETH NURSES RESIDENCE JEWISH GENERAL HOSPITAL UTOPIA ONT	B SC H 1
DAVIDOW RUTH 1622 LAVOIE AVE OUTREMONT QUE	B A 2 CR 7 3066	DAVIS MICHAEL 5480 SNOWDON ST APT 26 MONTREAL 29 QUE	B A 2 HU 4 8610
DAVIDSON BRUCE GEORGE R 43 ST ANDREWS RD SAIE D URREE QUE	B SC AGR 1	DAVIS PETER L 2051 UNIVERSITY ST APT 3 544 ADELAIDE ST DALHOUSIE N S	MD CM 4 VI 4 8360
DAVIDSON JOSEPH D BRITTAIN HALL BOX 89 COMO QUE	B SC AGR 2	DAVIS RICHARD LUCKAR 3484 SHUTER ST APT 11 MONTREAL QUE	PARTIAL VI 8 3797
DAVIDSON MARGARET JEAN 345 41ST AVE LACHINE QUE	B A 2 ME 7 5248	DAVIS ROBERT MICHAEL 3 BELLEVUE AVE WESTMOUNT QUE	B ENG CM 3 HU 4 5251
DAVIDSON PETER WAYNE 3971 RAMEZAY AVE MONTREAL 6 QUE	B A 4 WE 2 9497	DAWE HAZEL EVELYN ANNIE ROYAL VICTORIA COLLEGE 533 NICOLA ST KAMLOOPS B C	B A 3 VI 2 0634
DAVIDSON ROBERT ALAN MACDONALD COLLEGE 8 ELM ST PORT ARTHUR ONT	B ED P ED 1	DAWES DAVID MADDON 3518 DUROCHER ST MTL ALEXANDRIA ONT	M SC 1

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DAWNAY RUPERT PAYAN 1429 STANLEY ST MTL LONGPARISH HOUSE ANDOVER HAMPS ENGLAND	B COM 1	DE BELLE GEORGE E 64 SUNNYSIDE AVE WESTMOUNT QUE	B A 1 HU 6 1033
DAWSON ANNE SANDRA ROYAL VICTORIA COLLEGE R C N AIR STATION SHEARWATER N S	B A 1 VI 9 0030	DE BELLE SUSAN GAIL 64 SUNNYSIDE AVE WESTMOUNT QUE	B A 1 HU 6 1033
DAWSON JOHN H 14 BELLEVUE AVE WESTMOUNT QUE	B C L 4 HU 4 5323	DE BRABANT JEAN YVES 800 LEXINGTON AVE MONTREAL QUE	B C L 4 HU 1 5839
DAWSON ROBERT 119 NOTRE DAME ST VALLEYFIELD QUE	B ENG 1	DE BRENTANI ANNELEEN 3458 MARLOWE AVE MONTREAL QUE	2 TCHRS 1 HU 9 3687
DAWSON WILLIAM INGLIS 4132A ISABELLA AVE MTL 10 WESTBURY CRES BICTON WEST AUSTRALIA	M SC 1	DE CARLO LEONARD J 3544 JEANNE MANCE ST MTL 161 RANDOLPH AVE JERSEY CITY N J USA	MD CM 2 VI 9 9090
DAY ELIZABETH JOAN STEWART HALL BRECKENRIDGE QUE	B SC H EC 3	DECARY YVES JOSEPH F 1 71ST AVE L ABOARD A PLOUFFE QUE	PARTIAL MU 1 1291
DAY JOHN JOSEPH 10 LEGAULT ST STE ANNE DE BELLEVUE QUE 34 DUNDAS RD QUELPH ONT	B SC AGR 2	DECKELBAUM DAVID ZAVE 77 PAGNUELO AVE OUTREMONT QUE	D D S 1 CR 1 8873
DAY JOHN RICHARD 3482 MCTAVISH ST MTL 134 CAMBRIDGE ST IROQUOIS FALLS ONT	B ENG 3	DECKELBAUM RICHARD JOSEPH 77 PAGNUELO AVE OUTREMONT QUE	B SC 1 CR 1 8873
DAY PENELOPE 56 GRAHVILLE RD HAMPESTEAD QUE	B A 1 HU 6 4655	DEERY RONALD WALTER MACDONALD COLLEGE HEMMINGFORD QUE	B SC AGR 1
DAY WILLIAM C 3440 RIDGEWOOD AVE 1684 TERRY LANE NEW ALBANY INDIANA USA	PH D 2 RE 9 5194	DE GARDONY JULIETTE M R 4806 GROSVENOR AVE MONTREAL QUE	B A 3 HU 1 3220
DEAN JUDITH ELLEN 955 LINDSAY AVE VILLE ST LAURENT QUE	B ED 3 RI 7 7060	DE GROOT JEAN ANDRE 3032 MAPLEWOOD AVE APT 12 MONTREAL 26 QUE	B ENG EL 3 RE 7 5643
DEAN RONALD SAMUEL 5932 BEAULIEU ST MONTREAL 20 QUE	PH D 4 PO 6 7392	DEITCHER DEBORA 2845 DARLINGTON PL APT 21 MONTREAL QUE	B A 4 RE 1 1311
DEANESLY MARGARET ROYAL VICTORIA COLLEGE 145 EAST FIFTH ST MINDS DALE ILL USA	MD CM 3 VI 2 0847	DE KONING HENDRIK W MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	B SC AGR 4
DE ANGELIS CAMILLE JOHN 8301 CLARK ST MONTREAL QUE	B SC 1 DU 9 6921	DE KOOS ANDREW 5407 COTE ST ANTOINE RD MONTREAL QUE	B A 2 HU 8 8037
DEAR CAROLE ANNA ROYAL VICTORIA COLLEGE 2 QUEENSBERRY HOUSE RICHMOND SURREY ENGLAND	B A 4 VI 2 0327	DE KOOS EDMOND BALTHAZAR 5407 COTE ST ANTOINE RD MONTREAL QUE	B SC 1 HU 8 8037
DEARDEN ROBERT A DUNVEGAN CARBIS BAY ST IVES CORNWALL ENGLAND	B SC 1	DE KOOS PETER ROBERT Y 5075 CUMBERLAND AVE MONTREAL QUE	B ENG 2 HU 8 0707
DEATHE MARY E LAIRD HALL 7 SIMCOE AVE MONTREAL 16 QUE	B ED 2	DE LADURANTAVE JOSEPH Y 5053 BREBEUF ST MTL 1555 GRAVEL ST BROSSEAU STA QUE	B ENG MCH 5 OL 9 1848
DEAVITT JOAN MARILYN STEWART HALL BOX 301 PEMBROKE ONT	B SC H EC 2	DE LA ROCHE IAN ANDREW 73 JASPER RD BEACONSFIELD QUE	PARTIAL OX 5 6484
DEBAS MAILE TESFAYE 3555 HUTCHISON ST APT 7 MTL C O UNIVERSITY COLLEGE ADDIS ABABA ETHIOPIA	MD CM 1 VI 2 0613	DE LEON LAURENZA ALBERTO 3506 UNIVERSITY ST MTL CALLE 38 NO 4 97 PANAMA REPUBLIC DE PANAMA	B SC 4 VI 4 0624
DEBELLE DAVID ARTHUR 570 MILTON ST APT 9 MONTREAL QUE	B ARCH 5	DE LEON ROGELIO 3471 SHUTER ST APT 5 MTL 1529 KANSAS AVE PACO MANILA PHILIPPINES	PH D 3
		DE LIND VAN WIJNOAAR DEN 3390 BARCLAY AVE APT 12 ALBRECHTSLAAN 28 BUSSUM HOLLAND	B ENG MCH 5 RE 9 8176
		DEL MONACO CARLO A 3615 RIDGEWOOD AVE APT 507 MTL LA FLORESTA AVE TROPICAL OTA MARIANELA NO 308 CARACAS VENEZUELA	PARTIAL RE 8 8803

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DELONG ROBERT EDWARD 481 SHERBROOKE ST W MTL BOX 242 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	B SC 2	DERMER HAROLD 3455 ELLENDALE AVE APT 14 MONTREAL QUE	B C L 4 RE 3 8366
DE LORME RICHARD HOLMES 1260 BERNARD AVE W APT 3 MONTREAL 8 QUE	B D 3 CR 2 1489	DEROME JACQUES FLORIAN 22 GERRAIS ST LAVAL DES RAPIDES QUE	B SC 1 MO 9 4228
DEMERS PAUL M 368 CARLYLE AVE TOWN OF MT ROYAL QUE	B C L 2	DEROME JACQUES HENRI 480 QUIMET MONTREAL QUE	B ARCH 5
DEMERS ROBERT 571 DAVAAR MONTREAL QUE	B C L 3 CR 2 8528	DERY LAURENT 3584 JEANNE MANCE ST MTL ST SEVERIN DE PROULXVILLE CO CHAMPLAIN QUE	B ENG CIV 4 VI 4 1618
DEMETRI MICHAEL 1420 TOWERS ST APT 407 MONTREAL QUE	D D S 4	DESAI RAJNI KANT 3609 UNIVERSITY ST MTL 31 THORNHILL RD ALLAHABAD 2 INDIA	PH D 3 AV 8 6307
DEMETRIOU GEORGE 2910 MAPLEWOOD AVE APT 20 MONTREAL QUE	B ENG 1 RE 1 4825	DESAI RAMANLAL L 2049 MCGRILL COLLEGE AVE APT 5 MTL	PH D 3
DE MILLE GEORGE RUFUS 3609 UNIVERSITY ST MTL HAMPTON STA N 8	PH D 3 AV 8 6307	DESAI KALYAN SLDQ KHADILKAR RD BOMBAY 4 INDIA	
DEMONTIGNY JOSEPH BENOIT 254 SHERBROOKE ST APT 4 908 ST FRANCOIS XAVIER TROIS RIVIERES QUE	B ARCH 2	DESAULNIERS EDWARD D 105 MCILLAVE BOUCHERVILLE QUE	B ENG MCH 5 OL 5 5507
DEMOPOULOS ATHANASSIOS 4900 RADISSON MONTREAL QUE	B ARCH 5	DESAUTELS PIERRE A 1472 MONTARVILLE ST ST BRUNO CO CHAMBLY QUE	B COM 2 OL 3 2079
DENBERG IRVING MANUEL 3861C LAVAL AVE MONTREAL 18 QUE	B A 3 VI 5 9436	DESSOIS GERARD PAUL 25 DE L'EPEE AVE APT 5 MONTREAL QUE	B ENG MCH 4 CR 4 1570
DENIS C BERNARD 2280 BRINTON RD MONTREAL QUE	B ENG CIV 4	DESCHAMPS GUY ANDRE 268 MAY AVE MONTREAL QUE	B D 3 PO 6 9665
DENIS PETER ALAN 687 GROSVENOR AVE WESTMOUNT QUE	B SC 1 HU 4 7380	DESCHAMPS YVES LOUIS 522 MCKACHRAN AVE MONTREAL 8 QUE	B ARCH 2 CL 6 4605
DENISON JOLENE SYBIL L MACDONALD COLLEGE DENISON 5 MILLS RICHMOND QUE	2 TCHRS	DESCHENES PAUL ANDRE 764 RACHEL ST EAST MONTREAL QUE	B ENG CIV 3 LA 3 8724
DENNETT FRANCIS GEORGE W 3525 DUROCHER ST APT 94 MONTREAL 18 QUE	PH D 3 VI 2 2303	DESCHENES PIERRE 65 SHERBROOKE ST W MTL 98 NICHOLSON VALLEYFIELD QUE	B ENG COM 5
DENNIS MICHAEL 3737 CORONET RD MONTREAL 26 QUE	B C L 2 RE 8 5755	DE SCHULTHESB ANDREW G 389 CLARKE AVE WESTMOUNT QUE	B SC 2 WE 7 8236
DENNY JOANNA EVE ROYAL VICTORIA COLLEGE 117 HIGHSBOURNE RD TORONTO ONT	B A 2 VI 2 0495	DE SCHULTHESB ROBIN FRANK 389 CLARKE AVE WESTMOUNT QUE	B ENG COM 5 WE 7 8236
DENONCOURT GILLES JEAN G 3782 ROUEN ST MONTREAL QUE	B ENG 1 LA 1 2857	DESGARDINS JEAN WILBROD 4832 ST URBAIN ST MONTREAL QUE	B ENG MCH 5 CR 4 9624
DENSKY LILIANE CATHERINE 45 COURCELETTE AVE OUTREMONT QUE	B COM 4 CR 9 0741	DESGARDINS ROGER REAL 3459 DRUMMOND ST MTL R R 2 NEW LISKEARD ONT	B ENG CIV 3
DENTON CHARLES FREDERICK 3445 PEEL ST MTL BOX 472 BALBOA HTS CANAL ZONE PANAMA C A	B A 1 VI 5 9462	DESKIN ERIC 1685 DUCHARME AVE OUTREMONT QUE	B ENG CIV 5 CR 9 5805
DENYAR BRIAN EDGAR 340 RIVER ST ST LAMBERT QUE	B SC 2 OR 1 8011	DESLAURIERS ERNEST PAUL 3524 DUROCHER APT 7 MTL 422 BEDARD BLVD LACHUTE QUE	B COM 4 VI 9 7946
DE PASS JOAN ELIZABETH 5004 GROSVENOR AVE MONTREAL QUE	B A 3 RE 3 7508	DESHARAI ROGER GASTON 3431 DRUMMOND ST MTL 681 PROSPECT ST SHERBROOKE QUE	B ARCH 5 VI 9 0243
DERBY JAMES HART 3475A STANLEY APT 18 MTL WINDY RIDGE WILLISTON VERMONT USA	MD CM 4 VI 5 7798	DESHAYERS MARIE J L 455 WISEMAN AVE OUTREMONT QUE	B O L 1 CR 1 3858
		DESPRES RALPH THOMAS 66 MACAULAY AVE ST LAMBERT QUE	B ENG EL 4 OR 1 7044

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NAME ADDRESS	COURSE & YEAR TEL. NO.	NAME ADDRESS	COURSE & YEAR TEL. NO.
DE SOUZA PATRICK DAVID 5477 HUTCHISON ST MONTREAL QUE	PH D 2 CR 4 6994	DIAZ CLIFFORD STANLEY 2069 AYLMER ST MONTREAL QUE	B A 3
DESROCHERS GILLES 2508 SHERBROOKE ST E APT 14 MONTREAL QUE	PH D 2 LA 3 8694	DIBBLE ROSALIND J 426 SHERBROOKE ST W APT 2 MONTREAL QUE	B SC 2 VI 5 2954
DESROCHERS JOSEPH L S 732 WILDER AVE OUTREMONT QUE	B C L 4 RE 7 8597	DICK MARGARET ETHEL T 24 BASSEWOOD CIRCLE PTE CLAIRE QUE	2 TCHRS 1 OX 5 2403
DESROSIERS REAL JOSEPH P 213 ST JOSEPH BLVD E MONTREAL QUE	M SC 1 AV 8 9988	DICK WILLIAM ROBERT JOHN 73 SUMMERHILL AVE PTE CLAIRE QUE	B ENG 2 OX 7 0879
DESSUREAULT JOSEPH M C P 3 207 ST PIERRE ST ST CONSTANT CO LAPRAIRIE QUE	B COM 1 NE 2 3235	DICKERSON RICHARD K 85 WINDSOR AVE WESTMOUNT QUE	B D 2 HU 1 8882
DEY RENEE 9348 BASILE ROUTHIER MONTREAL QUE	B L S 1 DU 8 6542	DICKIE WILLIAM ROSE 5777 12TH AVE MONTREAL 36 QUE	B ENG EL 4 RA 1 0898
DE TOLEDO LEYLA 3495 RIDGEWOOD AVE APT 101 MONTREAL 26 QUE	B A 3 RE 3 0253	DICKINSON DAVID L 3506 UNIVERSITY ST MTL WALDON GATE WARWICK BERMUDA	B COM 1 VI 2 0624
DETTMAN JANET FLORENCE 20799 LAKE SHORE DR 139 FILION STE ROSE DE LAVAL QUE	MD CRAFTS 1	DICKINSON PETER C T 44 KINDERSLEY AVE TOWN OF MT ROYAL QUE	MD CM 2 RE 8 2265
DEUTSCH ANTEL 5400 DECELLES APT 12 MONTREAL QUE	M A 1 RE 9 1013	DICKINSON ROBERT A DOUGLAS HALL R R 1 HARTLAND N B	B SC 1 VI 5 1471
DEUTSCH EVA 2038 NORWAY RD TOWN OF MT ROYAL QUE	MD CM 1 RE 8 7376	DICKSON HEATHER V LAIRD HALL 1614 TASSE ST VILLE ST LAURENT QUE	B ED P ED 2
DEVAUX ALAIN M L BRITTAIN HALL 11882 DESENCLAVES ST MONTREAL QUE	B SC AGR 2	DICKSON JESSE DONALD J WILSON HALL 42 HILLCREST AVE PHILADELPHIA 18 PENNA USA	B A 1
DEVIEUX CARRIE 4946 COTE DE NEIGES APT 7 MTL 80 REPUBLICAN ST PETIT GOAVE HAITI W I	M ENG 2	DICKSON JOHN IVAN 4175 DROLET ST MONTREAL QUE	B ENG 1 VI 9 5913
DE VILLIERS JACOBUS S 1540 MCGREGOR AVE MTL 1 NORTH RD DUNKELD WEST JOHANNESBURG S A	M SC 2 WE 4 1180	DI CLEMENTI JOSEPH A 5244 QUEEN MARY RD MTL 10 LES PLAINES LAVAL SUR LE LAC QUE	B C L 4 HU 4 3014
DE VREEZE ANGELA T 3656 DUNOCHER ST APT 3 MONTREAL QUE	B SC 1 VI 4 4163	DIDELIUS DONALD P DOUGLAS HALL 1523 PROSPECT ST SANDUSKY OHIO USA	MD CM 2 VI 4 0977
DEW BENJAMIN GEORGE W 3660 HUTCHISON ST APT 7 P O BOX 123 CARMEL CALIF USA	MD CM 3 VI 4 1608	DIEHL JOHN ERIC 4300 WESTERN AVE WESTMOUNT QUE	B A 1 WE 5 8448
DEWAR HEATHER CAMERON ROYAL VICTORIA COLLEGE 30 DUNN ST S OAKVILLE ONT	B A 2	DIENES ANDREW 921 JARRY ST W APT 10 MONTREAL QUE	B ENG PHY 3 CR 6 7294
DEWOLF THOMAS J D DOUGLAS HALL 119 MINTO PL ROCKCLIFFE PARK OTTAWA ONT	B ARCH 3	DIKEOU VASSILIKI 3497 HUTCHISON ST MONTREAL QUE	M S W 1 VI 2 0497
DHAVERNAS BENOIT MARIE J 4 BELVEDERE RD WESTMOUNT QUE	B C L 3 WE 3 3980	DILLER LINDA NATALIE MACDONALD COLLEGE 7821 FOUCHER ST MONTREAL 10 QUE	3 TCHRS
DIAGNUM WILLIAM J 3411 BRUMMOND ST MONTREAL QUE	B A 2 AV 8 4181	DILLEY ANN R STEWART HALL 506 PRINCE ALBERT AVE WESTMOUNT QUE	B ED P ED 1
DIAMOND DOREEN ELAINE MACDONALD COLLEGE 5472 MOUNTAIN SIGHTS MONTREAL QUE	3 TCHRS	DILNESAHU BIRATE 3555 HUTCHISON ST APT 7 KEOAZMACH DILNESAHU TEKA RESIDENCE DIRE DAWA ETHIOPIA	B A 3
DIAZ ARQUELLES FRANCISCO MACDONALD COLLEGE 1ST AVE 3005 MIRAMAR MARIANAO CUBA	B SC AGR 3	DINES DOLORES 6335 LENNOX AVE MONTREAL QUE	B SC P OT 1 RE 9 0620
		DINES MILTON MORRIS 4650 LACOMBE AVE MONTREAL QUE	D D S 4 RE 8 3364

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DINES RONALD 5489 EARNSCLIFFE AVE MONTREAL QUE	B ENG 2 MU 1 4424	DOE EAGLESHAM HUGH M J 6920 OUTREMONT AVE APT 12 MTL UNITED NATIONS DR MOURVIA LIBERIA	B SC 2 CR 3 2290
DINGLE DAVID TERRENCE 66 FINCHLEY RD HAMPSTEAD QUE	B C L 3 MU 4 8700	DOEL DIANA JUNE ROYAL VICTORIA COLLEGE 11A THE AVENUE BRANKSOME PARK BOURNEMOUTH ENGLAND	B A 4 VI 2 0477
DINH SON 3444 JEANNE MANCE ST MTL 33 PHAM DANG HUNG SAIGON SOUTH VIET NAM	L L M 1 VI 9 4951	DOHERTY PATRICIA ROYAL VICTORIA COLLEGE 166 WARREN RD TORONTO ONT	B A 2 VI 2 0334
DINNICK MICHAEL ANTHONY 1500 STANLEY ST APT 1022 R R 2 AURORA ONT	B SC 3 AV 8 3642	DOIG DAVID WILLIAM 85 ROSELAWN CRES MONTREAL 16 QUE	B SC 4 RE 3 7287
DINNICK WILFRED B 1500 STANLEY ST APT 1022 R R 2 AURORA ONT	B A 3 AV 8 3642	DOIG GEORGE ANDREW 2201 FOREST HILL AVE APT 43 MTL R R 3 LACHUTE QUE	B ENG EL 3 RE 8 7595
DINSLEY KENNETH GEORGE DOUGLAS HALL 32 HUTTON CRES CALGARY ALTA	B SC 2 VI 5 1678	DOIG RONALD PAUL 7491 WISEMAN AVE MONTREAL QUE	B SC 4 CR 1 8044
DIONNE RAYMOND MAURICE 7398 TERRESOONE AVE MONTREAL QUE	B ENG CIV 5 MU 6 2015	DOLANSKY BENJAMIN JACOB 5326 TRANS ISLAND AVE MONTREAL 29 QUE	B A 1 MU 4 3652
DIPPEL GERALD DONALD V 485 SHERBROOKE ST W MTL 2338 LAKESHORE EAST APT 306 BURLINGTON ONT	D D B 1 VI 5 0740	DOLENGA BONDANNA THERESA 9201 VERVILLE ST MONTREAL QUE	B A 4 DU 1 0996
DI TULLIO VINCENT ANTHONY 883 CHARLEVOIX ST MONTREAL QUE	M SC 1 WE 2 0036	DOLLFUS RUDOLFE 4919 CARLTON AVE MONTREAL QUE	MD CM 2 RE 3 4778
DIXON ELIZABETH A M 622 WALPOLE AVE TOWN OF MT ROYAL QUE	B SC 3 RE 3 1207	DOLMAN DOUGLAS ROLPH 3581 UNIVERSITY ST MTL 486 HILLCREST CRES APT 103 SUDBURY ONT	B ARCH 3 VI 9 1368
DIXON JOHN DOUGLAS 5249 PARK AVE APT 203 MONTREAL 8 QUE	PH D 2	D OMBRAIN ANTHONY J 10 ROSEMOUNT AVE WESTMOUNT QUE	B COM 2 WE 5 1649
DIXON MICHAEL EDWARD 3551 UNIVERSITY ST APT 2 MONTREAL 2 QUE	MD CM 4	DONALDSON JAMES MILLAR 1955 GRAHAM BLVD MONTREAL 16 QUE	B ARCH 4 RE 3 7914
DIXTER ROSALIND SANDRA 4919 DRAPER AVE MONTREAL QUE	B A 1 MU 4 4162	DONEFER EUGENE 13 LAMARCHE ST STE ANNE DE BELLEVUE QUE	PH D 2
DIZOUN HAROLD 2031 BARCLAY AVE MONTREAL QUE	B A 1 RE 8 4805	DONOHUE LYNN CATHERINE E 3480 ONTARIO AVE MTL R R 1 CORNWALL ONT	B SC POT 4 VI 2 0044
DLUHOSCH ERIC 3430 MCTAVISH ST APT 102 MONTREAL QUE	B ARCH 6 VI 5 4785	DONOHUE THOMAS POWER MACDONALD COLLEGE DOUGLAS ONT	B SC AGR 1
DLUSY DEENA NAOMI 2521 MAPLEWOOD AVE APT 5 MONTREAL QUE	B A 2 RE 3 3380	DONOVAN JOHN KEVIN 5429 DUQUETTE AVE MONTREAL QUE	B C L 3 MU 8 4222
DOBIE BARBARA JEAN 3680 ONTARIO AVE MTL BOX 81 STAVELY ALTA	GRAD DIP 1 VI 5 0484	DORAN ROBERT ARTHUR 74 BAYVIEW PTE CLAIRE QUE	B ENG 2 OX 5 4757
DOBELL COLIN RUTHVEN C 1114 ELGIN TERR PEEL ST MONTREAL QUE	B A 3 VI 9 7826	DORE GUY 377 PRINCE ARTHUR ST W 1 MCKINNON ST MATANE QUE	B ENG EL 4 VI 9 0622
DOBSON ANNE ELIZABETH 170 STANLEY AVE ST LAMBERT QUE R R 4 BROCKVILLE ONT	B SC POT 2 OR 1 7624	DORENFELD MORRIS 4614 JEANNE MANCE ST MONTREAL QUE	B ENG EL 4 VI 5 3315
DOBSON DONALD M BRITAIN HALL 5484 CHENIER PL MONTREAL 5 QUE	B ED 2	DORGET PHILIPPE ANDRE C 128 LAZARD AVE TOWN OF MT ROYAL QUE	B COM 3 RE 7 4470
DOBUSH BRYAN GILBERT P 340 BALLANTYNE AVE MONTREAL WEST QUE	B ENG 1 MU 1 6852	DORKEN ROBERT WALTER 12 ST GEORGES PL WESTMOUNT QUE	B ENG CH 4 MU 8 4268
		D ORNELLAS CASSIAN M MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	B SC AGR 2

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DOROTICH DANIEL 523 SHERBROOKE ST W APT 27 MONTREAL 2 QUE	PH D 1 AV 8 3918	DRAYER NIESSIEUS MARINUS MTL CHILDREN S HOSP 2300 TUPPER ST MONTREAL QUE	M SC 1
DORRANCE DONALD A 2169 MARCIL AVE MONTREAL QUE	S ENG CIV 5 MU 1 6993	DRAYTON DONALD I BRITTAIN HALL 62 BARR ST GEORGETOWN 18 BRITISH GUIANA	S SC AGR 4
DORRINGTON BETTY 578 LANSDOWNE AVE MTL 6 128 MADGE ST SPRINGHILL N S	GRAD DIP 1 MU 4 0607	DRAYTON ROBERT McDONALD 3515 JEANNE MANCE ST MTL 836 PROSPECT PL BROOKLYN 16 N Y USA	S A 4
DORSEY EDITH ANN 740 UPPER ROSLYN AVE MONTREAL QUE	S A 3 MU 6 3382	DRAZEM HELEN 4909 CARLTON AVE MONTREAL QUE	S A 2 RE 9 4496
DOUCET LUCY MARGUERITE 380 METCALFE AVE WESTMOUNT QUE	S A 3 WE 7 7513	DRAZIN LOUIS 6042 WILDERTON AVE MONTREAL QUE	S CL 3 RE 8 1240
DOUEK MAURICE LEON 740 PLYMOUTH AVE TOWN OF MT ROYAL QUE	S SC 1 RE 3 8816	DRENNAN DIANE CLAIR 528 PRINCE ARTHUR ST APT 3 MTL 1335 MADISON AVE NEW YORK 28 N Y USA	GRAD DIP 1
DOUGHERTY DELBERT W 12 AMESBURY APT 576 MTL BURY QUE	S ED 3 WE 2 2079	DRESDEN GARY ANDREW 3484 DUROCHER ST MTL 441 E BEECH ST LONG BEACH N Y USA	S SC 1
DOUGLAS ANNE SARAH 648 MURRAY HILL WESTMOUNT QUE	S A 3 MU 6 1960	DREYFUS EVELYNE M STEWART HALL 279 SOURCES RD DORVAL QUE	S TCHRS 2
DOUSETT WILLIAM A BRITTAIN HALL R R 2 VALD OR QUE	S SC AGR 3	DRIVER PETER MICHAEL 1100 ELGIN TERR APT 301 MONTREAL QUE	PH D 3 VI 4 7803
DOUYON LAMARCK 2280 MADISON ST APT 1 706 RUELLÉ HAZON PORT AU PRINCE HAITI	MED DIPL 3 MU 1 8411	DRIVER PHYLLIS ELLEN 3680 ONTARIO AVE APT 9 4140 GORDON HEAD RD R R 5 VICTORIA B C	GRAD DIP 1 VI 4 0902
DOWIE DONALD MURRAY 405 LETHERIDGE AVE MONTREAL 16 QUE	S ENG 1 RE 8 3320	DROLET SUZANNE BEATRICE MACDONALD COLLEGE 780 54TH AVE LACHINE QUE	S TCHRS 1
DOWIE ROBERT OWEN 405 LETHERIDGE AVE MONTREAL 16 QUE	S ENG CIV 4 RE 8 3320	DROSTE DORIS IRENE 3445 RIDGEWOOD AVE APT 202 MONTREAL QUE	S ARCH 6 RE 8 4511
DOWLING PATRICK JOHN 8080 SHERBROOKE ST E MONTREAL QUE	MD CM 1 CL 4 1867	DROUIN J ROBERT S 421 PRINCE ARTHUR ST W 105 AVE ROYALE STE PETRONILLE QUE	PH D 4 VI 5 8370
DOWNER PETER J 2070 UNION AVE APT 11 MTL 42 HIGH RD E FELIXSTOWE SUFFOLK U K	PH D 2	DROUIN LAURETTE HENRIETTE J ARUNDEL QUE	S TCHRS
DOWNEY DEANE E D DOUGLAS HALL 1324 PRINCESS ST REGINA SASK	S A 2	DRUKER EDWARD JOSEPH 5255 COTE ST LUC RD APT 19 MONTREAL QUE	S CL 1
DOWNE JACK THEODORE 18 BAYVIEW AVE PTE CLAIRE QUE	SC 1 OX 5 4588	DRUKER JACK IRVING 2732 BRINTON RD MONTREAL QUE	S CL 1 RE 7 6805
DOWSE CYNTHIA FRANCES 26 MAPLE AVE STE ANNE DE BELLEVUE QUE	S A 2	DRUKER ROSALIND LEE 2130 BARCLAY AVE MONTREAL QUE	S A 1 RE 1 4277
DOYLE CAROLINE P 6 MURRAY AVE WESTMOUNT QUE	S A 1 MU 9 8606	DRUMMOND DENIS BISE 3077 ST LUKE ST APT 40 MONTREAL QUE	MD CM 2
DOROIS RITA THERESE 1559A PUNE AVE W MORSE SASK	GRAD DIP 1 WE 7 8011	DRUMMOND DEREK ARMOUR 47 ROSEMOUNT AVE WESTMOUNT QUE	S ARCH 4 WE 7 6860
DROGNAS HELEN MACDONALD COLLEGE 1978 KILDARE RD TOWN OF MT ROYAL QUE	S TCHRS 2	DRUMMOND GORDON DOUGLAS 772 GODIN AVE VERDUN QUE	S SC 4 PO 8 5769
DRAKE ELIZABETH ANNE ROYAL VICTORIA COLLEGE P O BOX 604 SAULT STE MARIE ONT	S SC 3 VI 2 0495	DRUMMOND ROBERT NORMAN 43 POINTE CLAIRE AVE PTE CLAIRE QUE	PH D 4 OX 5 3774
DRAKIN LINDA BARBARA 495 MITCHELL AVE TOWN OF MT ROYAL QUE	S A 2 RE 8 6016	DRURY DIANA 579 ROSLYN AVE WESTMOUNT QUE	S SC 1 MU 1 9489

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DRURY FREDERICK CHARLES 159 NORMANDY DR TOWN OF MT ROYAL QUE	B ENG EL 3 RE 1 4745	DUFFY KENNETH RAYMOND 124 MARTIN AVE DORVAL QUE	B SC AGR 3 ME 1 1222
DRUZIN SHEILA 3935 LINTON AVE APT 4 MONTREAL QUE	B SC 2 RE 1 4850	DUGAS MARCEL E 3625 OXENDEN MTL 290 PARKDALE OTTAWA ONT	B ENG CIV 5 VI 5 1910
DRYBURGH BEVERLY ANN MACDONALD COLLEGE KNOWLTON QUE	3 TCHRS	DUGUAY RENE PAUL 3000 JEANNE D ARC APT 9D CL BOX 3 SMOOTH ROCK FALLS ONT	B SC 2 CL 5 0267
DRYDEN ANNABELLE LAIRD HALL R R 1 COWANSVILLE QUE	B SC AGR 2	DUKE DOROTHY M 196 METCALFE ST APT 404 OTTAWA ONT	M L S 2
DRYDEN THOMAS HENRY 3443 SHUTER ST APT 3 MTL R R 1 COWANSVILLE QUE	B ENG EL 3 VI 2 0319	DUKE RICHARD HAROLD 566 BEAUMONT ST BRUNO QUE	B ENG CIV 4
DRYSDALE JAMES KEITH 82 STRATHEARN AVE MONTREAL WEST QUE	B SC 4 HU 6 1958	DULEY WALTER WINSTON 3295 DUQUESNE ST MONTREAL 5 QUE	B ENG 2 CL 5 2974
DRYSDALE WILLIAM J 442 LAKESHORE RD BEAUREPAIRE QUE	B A 1 OX 5 4224	DULMAGE JUDITH H ROYAL VICTORIA COLLEGE 138 GORE ST PERTH ONT	B A 2 VI 2 0634
DUBIN FRANCES 40 MONTEE STE MARIE STE ANNE DE BELLEVUE QUE 3134 BRIGHTON AVE MONTREAL QUE	3 TCHRS	DUMAIS MARIO J C 5345 DUQUETTE ST MTL C P 788 MONT JOLI QUE	B ENG 1
DUBIN JERRY LYON 5275 DOHERTY AVE MONTREAL QUE	B COM 1 HU 8 2254	DUMBRELL CHARLES J BRITTAIN HALL 204 SWITZER AVE OTTAWA ONT	B SC AGR 2
DUBITSKY JUDITH 1280 BERNARD AVE OUTREMONT QUE	B SC P OT 1	DUNBAR SUSAN ELIZABETH ROYAL VICTORIA COLLEGE 30 COBALT ST COPPER CLIFF ONT	B A 4
DUBITSKY SYLVIA 665 MCEACHRAN AVE MONTREAL QUE	B A 1 CR 9 1493	DUNDAS FREDERICK NORMAN 359 KINDERSLEY AVE TOWN OF MT ROYAL QUE	B COM 1 RE 7 8418
DUBOIS ANNETTE PATRICIA 3547 JEANNE MANCE ST MTL 6918 32ND AVE JACKSON HEIGHTS NEW YORK USA	M A 1 AV 8 2660	DUNDAS ROBERT GORDON 359 KINDERSLEY AVE TOWN OF MT ROYAL QUE	B SC 3 RE 7 8418
DUCHARME GERARD 8262 HENRI JULIEN MONTREAL 10 QUE	B C L 1 DU 8 4097	DUNFIELD IRENE HARRIET 515 OAK AVE ST LAMBERT QUE	2 TCHRS 1
DUCHESNE MICHEL 5613 PHILIPS ST MTL 655 LINDSEY ST DRUMMONDVILLE QUE	B C L 4 RE 9 1426	DUNFIELD JOHN CHARLES 406 THE KINGSWAY IBLINGTON ONT	B ENG EL 3
DUCKWORTH JOHN RICHARD 3511 SHUTER ST MTL 89 CAMBRIDGE ST HALIFAX N S	B ENG CIV 4 AV 8 3070	DUNKERLEY DAVID WILLIAM 5502 RANDALL AVE COTE ST LUC QUE	B ENG COM 5 HU 4 0661
DUCKWORTH JOHN WILLIAM 21A CHRISTIE ST STE ANNE DE BELLEVUE QUE	B COM 1	DUNLOP DAVID WHITSON B 2075 BISHOP ST APT 4 MTL THE HAYBEL HILDENBOROUGH KENT ENGLAND	B A 3 VI 2 0134
DU CREST MAXIME 3350 LINTON AVE MONTREAL QUE	L L M 2 RE 3 1700	LUNN EARL VINCENT 2065 CHOMEDY APT 5A MTL BOX 209 COOKSHIRE QUE	MD CM 4 WE 5 7391
DUDER BRANWEN E B ROYAL VICTORIA COLLEGE 7 CIRCULAR RD ST JOHN S NFLD	B SC P OT 1	DUNN JOHN THOMAS 116 QUEENS RD PTE CLAIRE QUE	B ENG MCH 4
DUFAU LABEYRIE DANIELE 4655 BONAVISTA AVE APT 306 MONTREAL QUE	B C L 2 HU 4 6451	DUNPHY THOMAS J BRITTAIN HALL PEAKES STA P E I	B SC AGR 4
DUFF GRAHAM LYMAN 24 MELBOURNE AVE WESTMOUNT QUE	B ENG EL 4 WE 2 2659	DUNSEATH BARRIE 290 PRINCE ARTHUR MTL SOMBRA ONT	MD CM 1
DUFF MARILYN JEAN 79 WOLSELEY AVE MONTREAL WEST QUE	B A 1 HU 4 8671	DUNSTON AURAM D 5134 TRANS ISLAND MONTREAL QUE	B ENG 2 HU 1 5947
DUFF SHEILA LOUISE 24 MELBOURNE AVE WESTMOUNT QUE	B SC 4 WE 2 2659		

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DU FLESSIS LEON PHILIP 2740 DARLINGTON PL APT 38 MTL MILL ST DOVER PLAINE NEW YORK USA	MD CM 3 RE 7 5259	EAMAN STANLEY GEORGE 4385 MELROSE AVE MONTREAL 28 QUE	B SC 3 HU 1 3280
DUPLESEA LETESHA MAE P W B SC H EC 3 STEWART HALL MOUTH OF KESWICK N B		EARDLEY MARTHA EVELYN MACDONALD COLLEGE 5 SHIRLEY SLOPE NASSAU BAHAMAS	2 TCHRS 1
DUPONT PIERRE ALBERT 27A PERRAULT AVE STE ANNE DE BELLEVUE QUE	B ENG CIV 4	EARTHROWL JOHN A 7490 CHAMPLAIN BLVD MONTREAL 32 QUE	B SC 2 DO 6 9286
DUQUET ELIZABETH ELLEN M 807 LEXINGTON AVE WESTMOUNT QUE	B A 2 HU 6 3901	EASDON GEORGE 3478 MACTAVISH ST MONTREAL QUE	B C L 2 VI 2 7412
DURDEN CHRISTOPHER JOHN R R 1 ILE PERROT N QUE	B SC 1	EASDON MICHAEL MORTIMER 2068 SHERBROOKE ST W MONTREAL QUE	B SC 4 WE 3 1523
DUROCHER BARBARA MACDONALD COLLEGE 49 LAFLEUR ST APT 1 VERDUN QUE	2 TCHRS 2	EAST CONRAD 3200 COTE ST CATHERINE MONTREAL QUE	PH D 2 RE 8 1161
DUROCHER MARIE MARTHE R MACDONALD COLLEGE 515 MONDOR ST ST HYACINTHE QUE	B SC H EC 1	EASTAL CHARLES DENNIS 134 BALLANTYNE AVE N MONTREAL WEST QUE	M ENG 2 HU 4 2903
DURRANT CHARLES DAVID 70 WINSTON CIRCLE PTE CLAIRE QUE	B SC 2 OX 5 6368	EASTERBROOK IAN K 3473 UNIVERSITY ST MTL MERIDEN COURTRIGHT ONT	B A 3 VI 9 1791
DURSO ANDRE FRANCIS 7964 ST DOMINIQUE ST MONTREAL QUE	B C L 3 DU 7 3660	EASTON ANTHONY JOHN 134 DEVON RD BEAUREPAIRE QUE	B ENG AM 3 OX 5 9994
DUSKES JASON MORRIS 6320 WESTBURY AVE MONTREAL QUE	B ENG 1 RE 3 3103	EATON ROBERT FINLAYSON 482 MT PLEASANT AVE WESTMOUNT QUE	B A 3 WE 3 6002
DU TOIT DEMAY 2029 METCALPE ST APT 8 MONTREAL QUE	B SC 2 VI 5 7949	EBERTE EDMOND GORDON 631 CARLETON AVE WESTMOUNT QUE	B SC 4 HU 8 5403
DUTTON LAWRENCE A BRITTAIN HALL 650 17TH AVE LACHINE QUE	B SC AGR 2	EBERTE GORDON HOWARD 631 CARLETON AVE WESTMOUNT QUE	B A 3 HU 8 5403
DUTTON RICHARD SANDERS DOUGLAS HALL 33 AVON ST WAKEFIELD MASS USA	MD CM 1 VI 5 1657	EBERTE JOHN D 631 CARLETON AVE WESTMOUNT QUE	B ENG CH 3 HU 8 5403
DUTTON WALTER ARTHUR 650 17TH AVE LACHINE QUE	B SC 4 ME 7 5138	ECHENBERG GORDON LEE 4125 BLUERIDGE CRES MONTREAL QUE	B COM 3 WE 3 2245
DUVERNET JOHN FREDERICK 3431 DRUMMOND ST MTL 521 HIGHLAND AVE OTTAWA ONT	B ARCH 5 VI 9 0243	ECHENBERG HOWARD BERTRAM 4875 PLAMONDON MTL 587 BOISJOLI SHERBROOKE QUE	B COM 3
DWORKIN NORMA GAIL 4900 GROVENOR AVE MONTREAL QUE	B A 3 HU 1 3212	ECHENBERG MYRON JOEL 4729 FULTON AVE MONTREAL QUE	B A 2 RE 9 8580
DYCK RONALD DENNIS 1441 DRUMMOND ST MTL 3443 PELLETIER ST SHAWINIGAN QUE	B ENG MCH 5	ECHEVERS ERNESTO JOSE 3506 UNIVERSITY ST MTL P O BOX 4298 PANAMA REPUBLIC OF PANAMA	B SC 4 VI 4 0624
DYKE JOHN GERRARD 120 GEORGE V AVE LACHINE QUE	B ENG MCH 4 ME 7 2950	ECKERSLEY GORDON BRITTAIN HALL 1735 EDOUARD LAURIN BLVD APT 3 ST LAURENT QUE	B ED 2
DYMENT PAUL GEORGE 447 CHESTER AVE TOWN OF MT ROYAL QUE	MD CM 4 RE 8 0888	ECONOMON STEWART CHARLES 3654 HUTCHISON AVE MTL 54 DOVER ST WORCESTER MASS USA	MD CM 1 VI 5 4468
EAKIN BARBARA GAIL 635 CARLETON AVE WESTMOUNT QUE	B A 3 HU 1 1456	EDE NORMAN LAURENCE 18 WAVERLEY RD PTE CLAIRE QUE	B ENG EL 4 OX 5 6461
EAMAN ROBERT DOUGLAS 3450 MARLOWE AVE MONTREAL QUE	M B D DIP HU 1 9562	EDELBERG DAVID SHABBAI 4501 HARVARD AVE MONTREAL 28 QUE	B ENG 2 HU 8 5701
		EDELBERG FRANK 5864 DECELLES PL APT 23 MONTREAL 26 QUE	B SC 2 RE 1 0598
		EDELSTEIN GEORGE 4603 COOLBROOK AVE MONTREAL QUE	M B D DIP I HU 6 6568

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NAME ADDRESS	COURSE & YEAR TEL. NO.	NAME ADDRESS	COURSE & YEAR TEL. NO.
EDINGER MAX ROBERT 3577 DUROCHER ST MTL AARAU SWITZERLAND RUCHLIOWEG 8	B ENG CM 5 VI 5 7658	EKANEM DAVID J 3531 LORNE AVE MTL P O BOX 95 UYO NIGERIA	B ENG CIV 4 VI 9 0904
EDMONDS MARION GRACE 351 BROCK AVE N MONTREAL WEST QUE	B TCHRS 1	EKE IFEOUW IKPO URUM 3492 HUTCHISON ST MTL BOX 119 UMUAMIA NIGERIA	B COM 2
EDMONDS THOMAS CHARLES 3508 UNIVERSITY ST MTL 351 BROCK AVE N MONTREAL WEST QUE	B D 1 VI 9 2042	EKPENYONG JOHN OKOK 3523 LORNE AVE MTL AFIANSIT 11 UYO NIGERIA	M A 1 VI 2 0398
EDSON HEATHER MARY 80 BROADVIEW AVE VALOIS QUE	B A 1 OX 7 2789	EKREN BRYAN ANTHONY 3600 LINTON AVE APT 206 MTL P O BOX 622 ANCHORAGE ALASKA USA	D D S 1 RE 9 8576
EDWARDS IVOR KEITH MACDONALD COLLEGE 27A CALEDONIA RD MANDEVILLE JAMAICA T W I	B SC AGR 3	ELDER MURRAY G 3565 HUTCHISON ST MTL CHRISTIEVILLE QUE	B ENG CIV 3 AV 8 2016
EDWARDS KELLY PETER R DOUGLAS HALL P O BOX 1204 SALISBURY S RHODESIA	B SC 2	ELDER SYLVIA AGNES SHAWBRIDGE QUE	B TCHRS 1
EDWARDS MAURICE OWEN WILSON HALL BOX 83 MANDEVILLE JAMAICA W I	B SC 3 VI 4 0624	ELIAS JOSEPH PAUL 3851 UNIVERSITY ST MTL 41 MURRAY ST PORT OF SPAIN TRINIDAD W I	B COM 4 VI 4 0977
EOAN JOANNE M LAIRD HALL 409 BRIAR AVE OTTAWA ONT	B SC M EC 1	ELIE JOHN DEXTER 8060 GARNIER ST MONTREAL QUE	B SC 2 RA 9 6248
EGLINGTON PETER CHESTON 3637 UNIVERSITY ST MONTREAL QUE	B COM 3 VI 9 4407	ELIOT CHRISTOPHER RHODES 3465 STANLEY ST APT 12 89 IRVING ST CAMBRIDGE 38 MASSACHUSETTS USA	MD CM 3 VI 9 8888
EORI JOHN 238 FAIRFIELD AVE ROSEMERE QUE	B ENG 2 HA 5 4386	ELIOT SARAH G 3480 ONTARIO AVE MTL 2276 WOODLAWN CRES VICTORIA BC	MD CM 2 VI 2 0044
EHRLICH ANNETTE 3491 STANLEY ST MTL 31 WEST 10TH ST NEW YORK N Y USA	PH D 4 VI 4 9484	ELMAS RUTH ELAINE 3680 ONTARIO AVE MTL 950 STANLEY AVE SHERBROOKE QUE	GRAD DIP 1 VI 5 0484
EHRLICH DANIEL JOSEPH 3491 STANLEY ST MONTREAL QUE	PH D 2 VI 4 9424	ELKIN EPHRAIM L 5126 CLANRANALD AVE MONTREAL QUE	B ENG 2 HU 8 2270
EIBEL DESORAH 6657 WILDERTON AVE MONTREAL 26 QUE	B A 4 RE 7 3717	ELKIN IRENE 581 LANSDOWNE AVE WESTMOUNT QUE	B A 2 HU 1 2828
EICHMAN OTTO KARL 2243 MELROSE MTL 303 E ROSS PALMYRA MISSOURI USA	MD CM 3 HU 8 2922	ELKIN JACOB JOSEPH DE B 581 LANSDOWNE AVE WESTMOUNT QUE	B A 3 HU 1 2828
EICHMANN REGINE INGRID 3050 BARCLAY AVE MONTREAL QUE	B A 1	ELKINS DAVID S 4589 ROYAL AVE MONTREAL 28 QUE	B COM 1 HU 6 1481
EIN SIGMUND HIRSCH 4043 VENDOME AVE MONTREAL QUE	MD CM 3 HU 6 7462	ELLIOT SIMON JOHN DOUGLAS HALL 55 ONSLOW SQ LONDON S W 7 ENGLAND	B A 2
EISENBERG PEARL MACDONALD COLLEGE 5218 MOUNTAIN SIGHTS AVE MONTREAL 29 QUE	B TCHRS 3	ELLIOTT ALAN S BRITAIN HALL MELVERN SQ ANNA CO N S	B SC AGR 4
EISENSTAT HYMAN A 5150 DECARIE BLVD APT 11 MONTREAL QUE	B COM 2 HU 6 6942	ELLIOTT BRIAN WILSON 2347 HINGSTON AVE MONTREAL QUE	B SC 1 HU 6 4590
EISENSTAT NORDA ANN 4635 CLANRANALD AVE APT 506 MONTREAL QUE	PARTIAL HU 8 2966	ELLIOTT DAVID WILLIAM 2991 CEDAR AVE MONTREAL 25 QUE	B SC 4 WE 3 5222
EISENSTEIN SAM 1115 LAJOIE AVE APT 6 MONTREAL 8 QUE	PH D 2 OR 2 2027	ELLIOTT DONALD ALLAN 299 QUINN BLVD LONGUEUIL QUE	B ENG 2 OR 4 4752
EISNER HASKEL 722 QUERBEC AVE OUTREMONT QUE	B SC 2 OR 4 7561	ELLIOTT GILBERT OWEN 299 QUINN BLVD LONGUEUIL QUE	B ENG EL 3 OR 4 4752

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TEL. NO.	TEL. NO.	TEL. NO.	TEL. NO.
ELLIOTT JEAN SHIRLEY 456 PINE AVE APT 7 MTL 475 LEARNMOUTH AVE QUEBEC CITY QUE	GRAD DIP 1 VI 4 3116	EMBREE DONNA M ROYAL VICTORIA COLLEGE R R 2 AMHERST N S	B A 3 VI 2 0180
ELLIOTT KARIN EVELINA ROYAL VICTORIA COLLEGE 112 EAST 74TH ST NEW YORK 21 N Y USA	B A 1 VI 9 0993	EMERSON VIRGINIA SCOTT 51 WESTMINSTER AVE N MONTREAL WEST QUE	M S W 2 MU 6 6319
ELLIOTT MICHAEL GILBERT BRITTAIN HALL TURTLE POND FARM COMO QUE	B SC AGR 1	EMERY WINSTON GEORGE BRITTAIN HALL 634 LYALL ST MONTREAL 5 QUE	S TCHRS
ELLIOTT MICHAEL HAYDEN BRITTAIN HALL CHRISTIANA JAMAICA W I	B SC AGR 2	ENGEL ROSALIE JUNE 3325 DECELLES PL APT 402 85 BROCKTON AVE HAVERHILL MASS UER	M S W 2 RE 9 7278
ELLIOTT PETER NICHOLAS 5620 ST JOSEPH ST LACHINE QUE	B ENG MCH 3 ME 7 3984	ENGELBERG ROSANNE 755 MITCHELL AVE TOWN OF MT ROYAL QUE	B A 1 RE 9 2751
ELLIS DANIEL BENSON 3619 UNIVERSITY ST MTL 2045 CRESCENT ST APT 3 MONTREAL QUE	PH D 2	ENOELBERT ALBERT CLAUDE 990 CHEMIN OHERRIER ILE BIZARD QUE	B COM 4 NA 6 5865
ELLIS DONALD ALDRICH 4990 WALKLEY AVE MONTREAL QUE	MD CM 1	ENOELSTEIN JANET S 4549 CIRCLE RD MONTREAL 6 QUE	B A 2 MU 4 8587
ELLIS LEONARD 4390 WILSON AVE MONTREAL 28 QUE	MD CM 1 MU 6 4121	ENGLAND LAWRENCE E C 98 DEVONSHIRE RD GREENFIELD PARK QUE	B ENG 1 OR 1 2028
ELLIS MARGARET LYNNE BOX 73 GLENN DR WEDGEWOOD PARK ROCKINGHAM N S	3 TCHRS	ENGLER EILEEN 1209 ST VIAEUR ST W MONTREAL QUE	B A 2 OR 4 8082
ELLIS PETER D M 485 SHERBROOKE ST W MTL 56 ST ANDREWS RD BAIE D URREE QUE	B ED 4 VI 5 0740	ENGLISH MARGARET MARION ROYAL VICTORIA COLLEGE 327 ISLAND PARK DR OTTAWA ONT	B ED P ED 3 VI 2 0478
ELLISON ISOBEL 1310 PINE AVE W MTL 100 YORKVILLE AVE TORONTO ONT	GRAD DIP 1	ENGLISH STANLEY FRASER 4770 PLAMONDON AVE APT 102 MONTREAL QUE	B CL 3 RE 9 9289
ELLISON ROBERT A 700 VICTORIA DR BAIE D URREE QUE	B ENG 2	ENRIGHT HARRY J MACDONALD COLLEGE R R 4 COBDEN ONT	B SC AGR 1
ELLS ALFRED DALE BRITTAIN HALL SHEFFIELD MILLS KINGS CO N S	B SC AGR 3	EPSTEIN ANGELA 795 DAVAAR AVE APT 12 MONTREAL QUE	B SC 2 OR 6 5687
ELLS IVAN S BRITTAIN HALL R R 1 CENTREVILLE KINGS CO N S	B SC AGR 4	EPSTEIN JEFFREY SHERMAN 3483 PEEL ST MTL 1258 BEACON ST BROOKLINE MASS USA	B COM 1 VI 2 0883
ELMAN ANNA LEE 7483 DE L EPEE AVE MONTREAL QUE	B A 2 OR 2 0602	EPSTEIN PETER 3835 GOYER ST MONTREAL 26 QUE	B ENG 1 RE 3 0963
ELMAN SAMUEL H 4920 DORMAL AVE MONTREAL QUE	B A 2 RE 8 1788	EPSTEIN SAM 5728 QUEEN MARY RD HAMPSTEAD QUE	B A 4 MU 8 0117
ELMAN SARITA 7483 DE L EPEE AVE MONTREAL QUE	B A 2 OR 2 0602	EPSTEIN WENDY BARBARA 4372 COOLBROOK AVE MONTREAL QUE	B A 1 MU 6 3940
ELMERIE SHIRLEY HELEN 9807 LASALLE BLVD VILLE LASALLE QUE	3 TCHRS	ERCK MARY ALETHA 3458 STANLEY ST APT 301 22 DIXON ST RAMSAY N J USA	M SC 1 VI 5 4384
EL SHISHINI MAGDA 380 METCALPE AVE WENT 1 HABATAT ST GARDEN CITY CAIRO EGYPT	M A 1 WE 7 7913	ERDELL SANDRA RUTH 5300 MOUNTAIN SIGHTS MONTREAL QUE	B A 1 MU 6 7116
ELSON JAMES FREDERICK 3508 UNIVERSITY ST MTL KENMORE ONT	B D 3	ERICKSON CARYL A 37 TUNSTALL AVE SENNEVILLE QUE	ETES 1
ENBACHER UTA HEDWIG G 55 CHESTERFIELD MTL 74 PRINCIPALE DELSON R 1 LAPRAIRIE QUE	B SC P OT 1 MU 4 1067	ERRETT STANLEY LESLIE 3508 UNIVERSITY ST MTL 341 HENRY ST W PRESCOTT ONT	B D 3 VI 5 4873
		ESAR BENJAMIN 5175 WESTBURY AVE MONTREAL QUE	B ENG EL 5 RE 8 1918

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ESAR DOROTHY 5175 WESTBURY AVE MONTREAL QUE	B SC M RE 8 1218	FAIGAN HARVEY 4090 PLAMOND AVE APT 6 MONTREAL QUE	B D S 3 RE 8 6445
ESAR HARRIET ISABEL 81 SPRINGROVE CRES OUTREMONT QUE	B SC P OT 1 CR 7 7696	FAJARDO SALVADOR JIMENEZ 7100 21ST AVE VILLE ST MICHEL QUE	B SC 2
ESDALE WILLIAM J BRITTAIN HALL R R 1 LONG SAULT ONT	B SC AGR 2	FAJOLLEON JULIETTE 1044 PRATT AVE MONTREAL 8 QUE	B SC 1 RE 8 8961
ETCOVITCH ALLEN 776 BLOOMFIELD AVE MONTREAL 8 QUE	B SC 4 CR 4 1801	FAJNER GISELA 3275 BARCLAY AVE APT 6 MONTREAL 26 QUE	M S D DIP RE 3 8127
ETHERINGTON BARBARA JANE 3480 ONTARIO AVE MTL 218 ABERDEEN AVE HAMILTON ONT	B SC P OT 3 VI 2 0044	FALBY WILLIAM EPHRAIM O 3572 HUTCHISON ST MONTREAL QUE	B ENG 2
ETIENNE LORRAINE E ROYAL VICTORIA COLLEGE 145 HIGHLAND AVE KINGSTON N Y USA	B A 3 VI 2 0327	FALCONAR ANDREW 910 MCEACHRAN AVE MONTREAL 8 QUE	B SC 3 CR 6 3617
EVANS EDWARD ARTHUR 66 ARLINGTON AVE WESTMOUNT QUE	B COM 2 WE 7 3337	FALCONER KATHRYN ALICE ROYAL VICTORIA COLLEGE 2046 BAFFIN AVE OTTAWA ONT	B SC P OT 1 VI 2 0571
EVANS JEAN CAROLYN 1275 LATOUR ST VILLE ST LAURENT QUE	B SC 3 RI 6 7078	FALLIS ROBERT FRANK 4940 MAPLEWOOD AVE APT 15 MONTREAL 29 QUE	M SC 1 RE 9 7094
EVANS JOAN ELIZABETH MACDONALD COLLEGE 260 MACAULAY AVE ST LAMBERT QUE	2 TCHRS 1	FALTA LADA PATRICIA 2375 MACNEIL RD TOWN OF MT ROYAL QUE	B ARCH 2 RE 7 9842
EVANS JOHN FREDERICK MONTREAL GENERAL HOSP MONTREAL QUE	MED DIPL 3	FALTA VERA SONIA 2375 MACNEIL RD TOWN OF MT ROYAL QUE	B SC 4 RE 7 9842
EVE FRANK R 3463 SHUTER ST APT 1 MTL BEECHWOOD PARK RD BUXTON DERSYS ENGLAND	B SC 2 VI 5 0746	FANABERIA NAOMI 51 PERRAULT ST STE ANNE DE BELLEVUE QUE 4 HUDSON AVE WESTMOUNT QUE	2 TCHRS 1
EVELYN DEREK EDWARD T 274 85TH AVE L ABOARD A PLOUFFE QUE	B COM 4 MU 1 7793	FANCOTT JULYAN 3015 SHERBROOKE ST W APT 201 MTL 119 CEDAR AVE PTE CLAIRE QUE	B A 4 WE 7 0983
EVERITT DOROTHY IONA ROYAL VICTORIA COLLEGE SCHREIBER ONT	B A 4 VI 9 0858	FANCOTT TERRILL 119 CEDAR AVE PTE CLAIRE QUE	B ENG EL 4 EX 5 5787
EVRAIRE RICHARD J 3429 ST ANDRE MTL 107 AUGUSTA ST OTTAWA ONT	B ENG CIV 5 DA 3 9640	FANARA PAUL DAVID 225 KENSINGTON AVE APT 5 P O BOX 50 ST JOHN S ANTIGUA B W I	B ENG 1 WE 2 9875
EWART ROBERT GEORGE 204 RUTH AVE OTTERBURN PARK QUE	B SC 3	FARBER RALPH 4507 ST URBAIN ST APT 9 MONTREAL QUE	B ENG 1 AV 8 3674
EWING MARGARET LORA ROYAL VICTORIA COLLEGE R F D 1 EASTHAMPTON MASS USA	B A 3 VI 2 0477	FARGE TABERNACLE JEAN C 3905 SHERBROOKE ST E MONTREAL QUE	B ENG MET 5 CL 6 8754
EYTON JONES WILLIAM 8313 ESPLANADE AVE MONTREAL QUE	B COM 1 DU 9 3946	FARKAS TIBOR ISTVAN 4965 COTE ST LUC RD APT 6 MONTREAL 29 QUE	M SC 1 MU 8 3074
F		FARMER ALAN 3482 MCTAVISH ST MTL 60 CLOUGH ST LENNOXVILLE QUE	B A 4
FABIAN NANCY MARY ILONA STEWART HALL 7295 ACADIE BLVD MONTREAL QUE	3 TCHRS	FARMER ANNE JULIA ROYAL VICTORIA COLLEGE HILL MANOR LINDFIELD SUSSEX ENGLAND	B A 2 VI 2 0377
FABIERKIEWICZ MAREK Z 258 SHERBROOKE ST W MTL 107 DAWLISH AVE TORONTO ONT	B ENG 1 VI 9 0714	FARMER FRANK HARVEY 44A PERRAULT AVE STE ANNE DE BELLEVUE QUE	B ENG EL 4
FAGEN DAVID 5468 ST URBAIN ST APT 7 MONTREAL QUE	B ENG 1 CR 2 0648	FARMER KEITH DAVID 174 TURGEON ST STE THERESE QUE	B ENG EL 3
		FARMER RICHARD R 3633 OXENDEN AVE 72 QUEEN ST QUELPH ONT	B ENG CIV 3 AV 8 6896

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FARMER ROBERT ALLAN 3506 UNIVERSITY ST MTL 26 DAWSON AVE DORVAL QUE	B ENG CIV 4 VI 4 0624	FAUTEUX JEAN 218 WILLOWDALE MONTREAL QUE	B COM 2 RE 8 4457
FARNDAL FENELPHE ROYAL VICTORIA COLLEGE 23 BRENTONWOOD AVE BARRINGTON R 1 USA	B A 4	FAYREAU ROGER FERNAND J 635 MONTROSE ST DUVERNAY QUE	PH D 5 NO 1 3482
FARNSWORTH ANNE LABOUISSIE 1850 LINCOLN AVE APT 602 MONTREAL QUE	PARTIAL WE 3 3292	FAY BARBARA JOAN ROYAL VICTORIA COLLEGE 20 KIRKHAM ST NEWINGTON 11 CONN USA	B SC 3 VI 2 0847
FARNSWORTH DONALD BRIAN 3482 MCTAVISH ST MTL 111 KING ST STURGEON FALLS ONT	B A 1 VI 9 5965	FAYOLLE ROGER GUY 1189 CITY HALL AVE MONTREAL QUE	B SC 1 UN 1 6247
FARNSWORTH MICHAEL D J 426 SHERBROOKE ST W APT 5 MTL 181 FIRST AVE NORANDA QUE	B ENG MI 4	FEARMAN ELIZABETH BLAKE ROYAL VICTORIA COLLEGE 206 COLBORNE W OAKVILLE ONT	B A 1 VI 2 0571
FARQUHAR HELEN MARION ROYAL VICTORIA COLLEGE 60 CHURCH ST GANANOQUE ONT	B A 2 VI 2 0847	FEARMAN FRANCES SCOTT ROYAL VICTORIA COLLEGE 206 COLBORNE ST W OAKVILLE ONT	B A 4 VI 2 0495
FARQUHARSON JEAN REID ROYAL VICTORIA COLLEGE 94 JOHN ST ARNPRIOR ONT	B A 1 VI 2 0829	FEARON DAVID SHELDON 3508 UNIVERSITY ST APT 3 P O BOX 151 LENNOXVILLE QUE	B D 1 VI 5 4873
FARR ELIZABETH MARY ROYAL VICTORIA COLLEGE R R 3 ORILLIA ONT	B A 2	FEDER NORMAN 1235 BERNARD AVE W APT 18 MONTREAL QUE	B ENG 2 CR 7 8735
FARR ROBERT J BRITAIN HALL SWEETSBURG QUE	B SC AGR 2	FEDERSPIEL HOWARD MANLEY 6954 OUTREMONT AVE APT 14 MTL 13 WASHINGTON ST AKRON N Y USA	M A 2
FARRA BLAZENKA 716 VICTORIA DR SAIE D URREE QUE	3 TCHRS	FEFFERMAN STANLEY 4620 PLAMONDON AVE APT 2 MONTREAL QUE	M A 2 RE 1 2922
FARRAR DIANNE C ETEWART HALL 838 DESMARCHAIS BLVD VERDUN QUE	B TCHRS 2	FEHER LORNE CSABA ARPAD 50 GRAHAM BLVD TOWN OF MT ROYAL QUE	B ENG 1 RE 1 5732
FARRELL ROBERT WILLIAM M 1578 MACGREGOR ST MTL 18ALHOLM SAVAL PARK RD DALKEY CO DUBLIN IRELAND	B L S 1	FEHERDY IVAN 1 CHELSEA PL MONTREAL QUE	B A 4 WE 5 3720
FARRELL THOMAS ADAM 6300 LENNOX AVE APT 810 HARTS HILL WHITEBORO NEW YORK USA	MD CM 3 RE 1 1906	FEIDELBERG MICHAEL 6750 FIELDING AVE MONTREAL QUE	H B D DIP HU 9 3055
FARRER SUSAN DOROTHEA MACDONALD COLLEGE 2060 O BRIEN BLVD VILLE ST LAURENT QUE	B ED P ED 1	FEIFER HERBERT 15 PAGNUELO AVE OUTREMONT QUE	B ARCH 3 CR 2 5688
FASGIO VICTOR JOHN ERNEST 6665 TRANS ISLAND AVE MONTREAL QUE	B A 2 RE 1 4815	FEIO SHEILA 4925 JEAN BRILLANT ST MONTREAL QUE	B SC 1 RE 7 2606
FATTAL LEON YEHUDA WILSON HALL 42 LINCOLN HOUSE BASIL ST LONDON S W 3 ENGLAND	B ENG EL 3 VI 4 0624	FEINBERG MICHAEL PHILLIP 3420 PEEL ST MTL 205 NO 28TH ST ALLENTOWN PENNA USA	B SC 1 VI 2 0343
FATTAL TONY S WILSON HALL 42 LINCOLN HOUSE BASIL ST LONDON S W 3 ENGLAND	B COM 2 VI 4 0624	FEINCHNEIDER JEANINE 2140 COLLEGE XTE MONTREAL QUE	B SC 3 RI 8 8965
FAUGHT SAMUEL EDGAR R R 3 COSDEN ONT	B SC AGR 1	FEINER MERRILLE SINA 4511 MAPLEWOOD AVE MONTREAL QUE	M SC 1 RE 8 8680
FAULCONBRIDGE ALBERT J 3433 BURGHER APT 107 MONTREAL QUE	MD CM 4	FEINER MICHAEL PETER 4052 WILSON AVE MONTREAL QUE	B A 1 HU 1 5897
FAULCONBRIDGE WAYNE W BRITAIN HALL 10525 GARDEN AVE MONTREAL NORTH QUE	3 TCHRS	FEINGOLD MYRA BELLE M 5135 LACOMBE AVE MONTREAL QUE	B A 3 RE 8 2868
		FEINTUCH DALE RUTH 2000 NORWAY RD TOWN OF MT ROYAL QUE	B SC 1 RE 7 0252
		FEISE CHRISTIAN M 5229 BORDEN AVE MONTREAL QUE	B ARCH 2 HU 6 2363
		FEISE THEODOR C 5229 BORDEN AVE MONTREAL QUE	B ENG 2 HU 6 2363

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FEITLEBERG NORMA 4 ST ETIENNE STE ANNE DE BELLEVUE QUE 4530 LINTON AVE APT 3 MONTREAL QUE	3 TCHRS	FERGUSON RUTH 3532 LORNE AVE APT 8 MONTREAL QUE	MED DIPL 1 AV 8 9714
FEIWEL GEORGE R 1800 ST LOUIS ST APT 302 VILLE ST LAURENT QUE	M A 2 RI 8 8621	FERGUSON SUSAN KATHERINE 4095 COTE DES NEIGES APT 33 MTL 34 WINNIPEG AVE PORT ARTHUR ONT	GRAD DIP 1
FELDMAN ALLEN EDWARD 3081 BRIGHTON AVE MONTREAL QUE	B A 3 RE 7 7715	FERGUSON JAMES RICHMOND DOUGLAS HALL HEMINGFORD QUE	B SC 2 VI 5 0934
FELDMAN BRYNA BARBARA 726A QUERBES AVE OUTREMONT QUE	B SC P OT 2 CR 6 9160	FERNANDES MORRIS RUDOLPH DOUGLAS HALL 81 LAMAMA ST GEORGETOWN BRITISH GUIANA SOUTH AMERICA	B SC 1
FELDMAN MARIAN 50 BANSTEAD RD MONTREAL WEST QUE	B A 2 MU 6 7391	FERNANDEZ PARDO CARIDAD E 2039 MCGILL COLLEGE AVE APT 35 MTL 13 NO 166 ESQ K APT 42 VEDADO HAVANA CUBA	B A 2
FELDMAN MICHAEL ROBERT 601 CLARKE AVE WESTMOUNT QUE	B COM 2 WE 5 8885	FERRABEE JOHN GILBERT 3475A STANLEY ST MONTREAL QUE	B C L 1 VI 2 2885
FELDMAN NORMAN 470 HARRIS VILLE ST LAURENT QUE	M SC 1 RI 4 6387	FERRIE DONALD JAMES 3633 OXENDEN AVE MTL 29 TUNSTALL AVE SENNEVILLE QUE	B SC 2 AV 8 6896
FELDMAN PHILIP SEYMOUR 3420 PEEL ST MTL 1975 YPRES BLVD WINDSOR ONT	B A 4 VI 2 0343	FERRON JOSEPH JEAN H 521 ALGONQUIN TOWN OF MT ROYAL QUE	B C L 4 RE 8 4830
FELDMAN SHEILA MACDONALD COLLEGE 4873 LA PELTRIE ST MONTREAL QUE	3 TCHRS	FESLER ALFRED 4150 ST KEVIN AVE APT 11 MONTREAL 26 QUE	MD CM 2 RE 8 1245
FELDMAN WILLIAM 4715 PLAMONDON APT 21 MONTREAL QUE	MD CM 3 RE 9 3490	FESTINGER ANNA D 5705 COTE DES NEIGES MONTREAL QUE	B SC 1 RE 7 7659
FELEDY JULIUS ALEX 3532 LORNE AVE MTL 7022 BOYCE ST MONTREAL QUE	M A 1 AV 8 9714	FIANDER WALTER H BRITTAIN HALL SITE 63 BOX 12 13 PENETANGUISHENE ST JOHN S Nfld	B SC AGR 4
FELLOWS EDWARD A 3265 GOVER ST APT 8 MONTREAL QUE	D D S 2 RE 8 7911	FICHMAN STEPHEN HARRY 4894 ISABELLA AVE MONTREAL QUE	MD CM 1 RE 9 6594
FELS MORTON 4978 VICTORIA AVE MONTREAL QUE	B ENG CH 4 RE 8 6945	FIELD ORIAN L LAIRD HALL 6645 TERREBONNE AVE APT 4 MONTREAL QUE	3 TCHRS 2
FELS SARAH 4978 VICTORIA AVE MONTREAL QUE	B A 2 RE 8 6945	FIELDING HENRY ANTHONY 3581 UNIVERSITY ST MTL C O WESTERN UNION NORTA FAIAL AZORES	B ENG 2 VI 9 1368
FELVINCI JOHN PAUL 4710 DECARIE BLVD APT 14 MONTREAL QUE	M SC 1 MU 9 8378	FIELDMAN MICHAEL M 5181 COTE ST ANTOINE RD MONTREAL QUE	B ARCH 3 MU 4 9056
FENG JAMES S F 3611 LORNE CRES MTL 18 SHIN SHENG RD SOUTH SECTION 11 TAIPEI TAIWAN REPUBLIC OF CHINA	L L M 2 VI 4 1609	FIEN PATRICIA 15 ST ANNE STE ANNE DE BELLEVUE QUE 4712 VEZINA ST MONTREAL QUE	3 TCHRS
FERRER EMMA 1355 DORCHESTER ST W MONTREAL QUE	B A 2	FILES ANGELA ELLA 5732 BOWMERLE AVE APT 6 REV G DAECHSEL STORM AVE HUDSON NEW YORK USA	M A 1 MU 8 7808
FERGUSON DONALD STEWART 18 SIMCOE AVE TOWN OF MT ROYAL QUE	B ENG 2 RE 7 3769	FILDER BARRY THOMAS 3840 MACKENZIE ST MONTREAL 26 QUE	P E DIP 1 RE 9 1829
FERGUSON ESTELLA J 1200 UNION AVE MTL BELFIELD P O ST MARY JAMAICA W I	HDICRAFTS 1 UN 6 0014	FILIPOWICH WALTER C 1139 SHEARER ST MTL MANNING ALTA	B SC 3 WE 5 1397
FERGUSON JACK MACDONALD COLLEGE R R 3 CORNWALL ONT	B SC AGR 4	PILOTAS BERNADETTE MARY 3385 MAPLEWOOD AVE APT 7 MONTREAL 26 QUE	B A 8 RE 8 3921
FERGUSON ROBERT JOHN 417 PRINCE ARTHUR ST MTL 77 NEWTON ST DRUMMONDVILLE QUE	B ENG 1 VI 9 9038		
FERGUSON ROBERTICK A 8156 DE L'EPPE AVE MONTREAL 16 QUE	B SC 2 CR 2 6277		

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PILOTAS MARY ANN 3355 MAPLEWOOD AVE APT 7 MONTREAL 26 QUE	B A RE 8 3221 3	FISHER SELMA ROSALIND 3177 ST SULPICE RD MONTREAL QUE	B SC 2 WE 2 2668
PINCHAM HERBERT IAN 112 D ALSACE ST PREVILLE QUE	B SC 3 OR 1 1847	FISHER SHERRILL KATHERINE 459 SECOND ST ST LAMBERT QUE	B A 3 OR 1 3683
FINDLAY PETER HAMILTON BRITTAIN HALL 5605 WENTWORTH AVE COTE ST LUC QUE	2 TCHRS 1	FISHLOCK MARGARET ANN 1045 DUNVEGAN TOWN OF MT ROYAL QUE	B SC 1 RE 7 0919
FINE ISADORE MARVIN 6270 CLANRANALD AVE MONTREAL QUE	B ENG 1 RE 9 3475	FISHMAN JOSEPH 3952 MAPLEWOOD AVE MONTREAL QUE	M SC 2 RE 3 1098
FINEBERG SHEILA 675 DAVAR AVE OUTREMONT QUE	B SC P OT 1 OR 7 3769	FISHMAN MORRIS 6703 CHAREST RD COTE ST LUC QUE	B SC 4 HU 9 4836
FINKELSTEIN HARVEY 7060 CHESTER AVE MONTREAL QUE	B SC 3 HU 8 2143	FISK GEORGE EDWARD 7030 BIRNAM AVE MONTREAL 15 QUE	B SC 3 CR 9 0665
FINKELSTEIN JACK IRVING 5980 PARK AVE APT 1 MONTREAL QUE	B SC 4 CR 7 2205	FISK JUDITH ELIZABETH LAIRD HALL BOX 119 ABBOTSFORD QUE	2 TCHRS 2
FINKELSTEIN MICHAEL F 794 LEXINGTON AVE WESTMOUNT 6 QUE	B SC 3 HU 6 2322	FISKUS PAUL 4596 HUTCHISON ST APT 3 MONTREAL QUE	B ENG PHY 4 CR 7 8109
FINKELSTEIN SHELTON 5987 MACDONALD AVE MONTREAL QUE	B C L 1 RE 7 2768	FITZGIBSON GEORGE R 278 WALNUT AVE ST LAMBERT QUE	B ENG 2 OR 1 2907
FINKLESTEIN JERRY Z 4947 GROSVENOR AVE MONTREAL 29 QUE	MD CM 1 RE 7 2950	FITZPATRICK JOAN M 2376 HAMPTON AVE MTL 2503 5A ST B W CALGARY ALTA	M B W 1 HU 1 4560
FINLAYSON PETER GORDON MACDONALD COLLEGE R R 5 ORMSTOWN QUE	B SC AGR 1	FITZSIMONS PATRICIA GAIL 4610 WESTMORE AVE MONTREAL QUE	B SC 2 HU 1 3060
FINNIE GARY WILLIAM 6799 26TH AVE MONTREAL 36 QUE	B ENG 1 RA 2 5326	FLAM CHARLES EDWARD 495 PRINCE ARTHUR ST W APT 18 MTL P O BOX 340 CHANDLER QUE	B SC 2 VI 4 7684
FISCHER EDMUND GODFREY 3480 PEELE ST MTL UNION AVE RONKONKOMA L I N Y USA	M SC 1 VI 9 7618	FLAM DAVID JON 495 PRINCE ARTHUR ST W APT 18 MTL P O BOX 340 CHANDLER QUE	B SC 2 VI 4 7684
FISCHLER SANDRA 5533 ROBINSON AVE COTE ST LUC QUE	B A 1 HU 8 7486	FLANDERS BARBARA SEMA 6298 MACDONALD AVE MONTREAL QUE	B A 1 HU 4 6898
FISH ALFRED JOSEPH 4805 DRAPER AVE MONTREAL 29 QUE	MD CM 2 HU 4 1828	FLANZ ALLAN ROBERT 761 STUART AVE MONTREAL QUE	B ENG 2 CR 9 6983
FISH CHARLES R 3515 DUROCHER ST APT 51 BOX 985 WHEATLAND WYO USA	MD CM 3 AV 8 3016	FLANZ LEONARD WALTER 4101 KENT AVE MONTREAL QUE	B A 3 RE 9 1457
FISH MORRIS JACOB 853 MCEACHRAN AVE OUTREMONT QUE	B C L 1 OR 2 8173	FLASCHNER MARGUERITE F 814 LORRAINE ST ARVIDA QUE	2 TCHRS
FISHER DAVID BRITTAIN HALL 81 OLARK MILL AVE WATERLOO QUE	2 TCHRS 1	FLAX NORMAN 4823 COTE ST CATHERINE APT 7 MONTREAL QUE	M B W 2 RE 3 8649
FISHER FLORA 1259 BISHOP ST MTL HARDWICK RD PETERSHAM MASS USA	M A 1 UN 1 0343	FLEETWOOD WILSON ANTHONY 3430 DRUMMOND ST MTL THE OWLS CHARLTON MORETHORNE SHERBORNE DORSET ENGLAND	B SC 2 VI 2 0789
FISHER MARJORIE JOAN ROYAL VICTORIA COLLEGE 1154 HELLERMAN ST PHILA 11 PA USA	B A 1	FLEMING DAVID 4000 BOUCHETTE APT 25 MONTREAL QUE	B C L 3 RE 7 6727
FISHER MAURICE WILLIAM J P O BOX 80 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	PH D 2	FLEMING MARILYN FAY MACDONALD COLLEGE BELVEDERE HEIGHTS SHERBROOKE QUE	3 TCHRS
FISHER REGINALD 6486 MONKLAND AVE APT 34 MONTREAL QUE	B SC 2 HU 8 4539		

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FLEMING RONALD A 2087 ST LUKE ST APT 9 MTL DUNDEE HUNTINGDON CO QUE	B COM 1 WE 3 9108	FORBES MARGARET LOUISE ROYAL VICTORIA COLLEGE 28 MATHESON AVE EDMUNDSTON N B	B SC 2 VI 2 0598
FLEMING STEPHEN CECIL 581 GROSVENOR AVE WESTMOUNT QUE	B C L 1 HU 1 2100	FORBES VIVIANNE MARY 4841 WESTHILL AVE MONTREAL QUE	M SC 2 HU 8 3789
FLETCHER BARRY DAVIS 3466 MCTAVISH ST MTL 141 KETTERIDGE AVE STRATHROY ONT	MD CM 3 AV 8 9533	FORD PATRICIA LYNNE ROYAL VICTORIA COLLEGE 116 HAWTHORNE DR SAIE D URFER QUE	B SC 2 VI 2 0495
FLETCHER JOHN GARDINER 3482 MCTAVISH ST MTL CARDINAL ONT	B COM 3	FORDE JOHN M 3327 APPLETON AVE MONTREAL QUE	M ENG 2 RE 3 1758
FLETCHER PATRICIA ANN ROYAL VICTORIA COLLEGE 55 VINET AVE DORVAL QUE	B SC N 2	FORDHAM JUNE LEOLA STEWART HALL BROOKLINE QUE	B ED 2
FLETCHER RONALD GENE 271 B PINE BEACH BLVD DORVAL QUE	D D S 3 ME 1 5339	FOREMAN DAVID J MACDONALD COLLEGE CALUMET QUE	B SC AGR 4
FLIGEL LAWRENCE L 4865 COTE ST CATHERINE APT 6 MONTREAL QUE	B C L 2 RE 3 0483	FORESTER GEORGE VICTOR 5020 POWELL AVE MONTREAL 16 QUE	B SC 1 RE 1 4633
FLINN ROBERT JAMES 768 SHERBROOKE ST W APT 6 MTL 15 SHIRLEY ST HALIFAX N S	B ARCH 4 VI 5 4476	FORESTER HAROLD 965 BERTRAND ST VILLE ST LAURENT QUE	B ENG 2 RI 4 5324
FLOMEN MARTIN DAVID 4853 FULTON ST MONTREAL QUE	B A 1 RE 7 2069	FORGET BERNARD GREGOIRE 430 WISEMAN AVE MTL 600 MAIN ST WARREN R I USA	MD CM 1 OR 1 5879
FLOOD SUSAN MARY LAIRD HALL 80 CLARK HILL WATERLOO QUE	B SC H EC 1	FORMAN MARION HINDA MACDONALD COLLEGE 4694 VAN HORNE AVE MONTREAL QUE	B TCHRS 1 RE 8 0957
FLOOD TRYPHENA M STEWART HALL 80 CLARKE HILL WATERLOO QUE	B SC H EC 3	FORROW WILLIAM JOSEPH 7691 MOLSON AVE MONTREAL 38 QUE	B ENG CM 5 RA 7 5956
FLORAKAS MARY 1900 VAN HORNE AVE MONTREAL QUE	B COM 4 RE 7 1234	FORTE RONALD F 10101 ST URBAIN MONTREAL 12 QUE	B ENG CIV 5 DU 8 6370
FLYNN BARRY N C 135 46TH AVE LACHINE QUE	B ENG 2 ME 7 5273	FORTIER ANDRE MICHEL 440 MT STEPHEN AVE WESTMOUNT QUE	B SC 3 WE 7 2645
FODOR ALEXANDER 1662 ST LUC ST APT 4 MONTREAL QUE	B L S 1 WE 2 9560	FORTIN CHARLES JOHN 20 ST LOUIS ST ST JOHNS QUE	B ENG EL 5
FOGEL MARTIN DAVID 5050 GROSVENOR AVE MONTREAL 26 QUE	B COM 1 RE 8 3401	FORTIN JACQUES GILLES 3880 COTE DES NEIGES MTL 995 AVE DES ERABLES QUEBEC CITY QUE	M SC 1 WE 5 1995
FOOLE FRANCES LORRAINE 7 WINCHESTER AVE WESTMOUNT QUE	H E D DIP HU 1 3940	FORTIN YVON MAURICE 1833 ST ANDRE ST MONTREAL 24 QUE	B ENG CIV 3 LA 1 7837
FOISY ROBERT 40 GLENCOE OUTREMONT 8 QUE	B ENG EL 4 RE 7 5244	FORTUINE ROBERT ALAN 590 MILTON ST APT 4 MTL BERRY MAINE USA	MD CM 4 VI 4 8351
FOK EDMUND YAT HIM 3619 OXENDEN AVE APT 11 72 KENNEDY RD HONG KONG	MD CM 1 VI 5 3995	FORUSZ HARRIS NEPORENT 3841 ST KEVIN APT 7 MONTREAL QUE	B ARCH 3 RE 9 1446
FOLDES ANDREW 4790 PLAMONDON AVE APT 204 MONTREAL QUE	M SC 1 RE 1 5248	FOSTER ARTHUR DOUGLAS 3478 MCTAVISH ST MTL GLYNDON MARYLAND USA	B SC 1 VI 2 7412
FOLKES ANTHONY PETER 4333 HARVARD AVE MONTREAL 28 QUE	B ENG MCH 4 HU 9 3120	FOSTER DONNA SUSAN MACDONALD COLLEGE 167 MONTCALM MORANDA QUE	3 TCHRS
FONG CHONG JOHN ROLAND 3484 PEEL ST MTL 86 PELHAM ST BELMONT PORT OF SPAIN TRINIDAD T W I	D D S 4 VI 4 5922	FOSTER EDWIN A 3745 DUPUIS AVE APT 16 MONTREAL QUE	B C L 2 RE 9 1338
FOOTE JOHN W 1409 ST CLARE RD TOWN OF MT ROYAL QUE	MD CM 2 RE 1 5685	FOSTER VERNON JOHN ERNEST 2040 VICTORIA ST MTL BOX 7 CAIRNIES ST LUCIA WEST INDIES	B ENG EL 4 VI 9 0078

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FOTHERINGHAM EDWARD B 5 ST GEORGES PL WESTMOUNT QUE	B ENG 1 MU 6 0892	FRANKEL HERSHIE 635 ALGONQUIN AVE MONTREAL QUE	B CL 3 RE 7 9519
FOTI ALEXANDER SANDOR 2660 GOVER ST APT 17 MONTREAL QUE	M A 1 RE 9 0477	FRANKL TOM 5219 KING EDWARD MONTREAL QUE	B A 1 MU 8 5668
FOULKS EDWARD F 3460 DUCROCHER MTL 15471 GLENWOOD DETROIT 5 MICH USA	MD CM 2	FRANKLIN DAVID ROBERT 504 ROSLYN AVE WESTMOUNT QUE	B CL 4
FOWLER DIANA RAMSAY 36 SUMMIT CIRCLE WESTMOUNT QUE	B A 2 WE 5 4500	FRANKLIN DOROTHY BARBARA 2890 VAN HORNE AVE APT 5 MONTREAL QUE	M B D DIP RE 8 8153
FOWLER JANETTE PAULINE LAIRD HALL 526 PINE AVE ST LAMBERT QUE	M B D DIP	FRAPPIER GILLES J C 862 MAPLE VILLE DE JACQUES CARTIER QUEBEC	PARTIAL RE 8 7935
FOWLER ROBERT GERALD 3120 GRANGEY AVE APT 6 MONTREAL QUE	B ENG 1	FRAPPIER JOSEPH MICHEL 556 ROCKLAND AVE MONTREAL QUE	B ENG 1 CR 6 3306
FOX FREDERICK GEORGE R 67 BALLANTYNE AVE N MONTREAL WEST QUE	B A 2 MU 6 7826	FRASER ALISTAR A D 421 SANFORD AVE ST LAMBERT QUE	B ENG 2
FOX GEORGE JAMES 2151 LINCOLN AVE APT 22 MONTREAL 25 QUE	B SC 4 WE 2 5481	FRASER BARBARA LOUISE 683 VICTORIA DR BAIE D'URFEE QUE	P E DIP 1
FOX JOHN DODGE 2186 ST CATHERINE ST W APT 10 MONTREAL QUE	B SC 3	FRASER DAVID GEORGE 850 LEDUC ST VILLE ST LAURENT QUE	B ENG AM 3 RI 4 2380
FOX NORMAN LEONARD 765 STUART AVE MONTREAL 8 QUE	B ENG 1 CR 3 4450	FRASER DEREK O 29 BARAT RD WESTMOUNT QUE	B A 3
FOX ROBERT 592 BERWICK TOWN OF MT ROYAL QUE	B ENG CH 4 RE 8 5024	FRASER ELSPETH ISABELLA 6567 STARNES ST MONTREAL 28 QUE	B ED 3 MU 4 9067
FOXALL PETER RUSSELL 5081 SHERBROOKE ST W MONTREAL QUE	PH D 2 MU 4 0879	FRASER JAMES ROBERT MACDONALD COLLEGE BOX 21 MATAPEDIA QUE	2 TCHRS
FRAGATOS PETER 642 GRAHAM BLVD MONTREAL 16 QUE	B SC 3 RE 3 3111	FRASER JEAN M LAIRD HALL 41 ALEXANDRA AVE BRIDGEWATER N S	B SC MEC 4
FRABERO WILLIAM 4926 MIRA RD MONTREAL 26 QUE	B A 2 MU 8 1209	FRASER JOAN MARY 53 ARLINGTON AVE WESTMOUNT QUE	PARTIAL WE 8 1145
FRANKIN ERIC JEAN LEON 376 GREENFELL AVE TOWN OF MT ROYAL QUE	B ARCH 2 RE 8 5247	FRASER JOHN BRYDON MACDONALD COLLEGE 47 WINDSOR AVE WESTMOUNT QUE	B SC ENG 1
FRANCIS GEORGE REID 316 STRATHEARN AVE MTL 388 MILLEDALE AVE E TORONTO 7 ONT	B A 4 MU 6 1212	FRASER KENNETH LYNN 4372 OLD ORCHARD AVE MTL P O BOX 193 SHAWINIGAN QUE	B ENG EL 4 MU 4 6982
FRANCIS JOHN DAVID 4341 MONTROSE AVE WESTMOUNT QUE	B A 1 WE 5 5193	FRASER MARILYN LUNDY E 3480 ONTARIO AVE MTL 7 GOODRICH ST SAINT JOHN N S	B SC POT 3 VI 2 0044
FRANCIS STEPHEN FREDERICK 4341 MONTROSE AVE WESTMOUNT QUE	B SC 1 WE 5 5193	FRASER WILLIAM M 2905 MARLEWOOD AVE MONTREAL QUE	D B S 2 RE 9 4096
FRANCOMBE WILLIAM M 7058 FIELDING AVE APT 302 MONTREAL QUE	PH D 1 MU 8 1001	FREDERICK ANDREW ROBERT 7346 DENORMANVILLE ST MONTREAL QUE	B A 4 RE 2 6170
FRANK BARRY 3973 9TH ST L'ABORD A PLOUFFE QUE	B SC 3 MU 1 7933	FREEDBOROUGH RICHARD M 3489 VENDOME AVE MONTREAL QUE	B COM 1 MU 8 0872
FRANK EDWARD MORTIMER 473 QUERBES AVE MONTREAL 8 QUE	B ENG MCH 4 CR 7 8888	FREED GERALD GORDON 1396 CAROL CRES ST MARTIN QUE	B CL 1 MU 8 0794
FRANK KAREN 5508 CAMPDEN PL MONTREAL QUE	B A 1 RE 8 3050	FREED SHEILA 81 LEGAULT ST STE ANNE DE BELLEVUE QUE	3 TCHRS
FRANK MARILYN SANDRA MACDONALD COLLEGE 5835 PRINCE OF WALES MONTREAL QUE	3 TCHRS	FREEDMAN FRANCES B 4000 DUPUIS APT 10 MONTREAL QUE	B A 1 RE 9 8778

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FREEDMAN GARY 5575 CLARRENALD AVE MONTREAL QUE	B SC 2 RE 1 6763	FRENKEL AYALA S 4704 DORNAL AVE MONTREAL QUE	B N 2 RE 1 1555
FREEDMAN HARVEY JOHN 4637 KENT AVE MONTREAL QUE	B SC 4 RE 3 6798	FRENKEL ODED JONADAY 405 PRINCE ARTHUR ST APT 12 MONTREAL QUE	M SC 1 VI 5 5734
FREEDMAN MYMIE 271 DUFFERIN RD HAMPSTEAD QUE	B SC 3 HU 8 8644	FRENKEL VERA 405 PRINCE ARTHUR ST W APT 12 MONTREAL QUE	M A 1 VI 5 5734
FREEDMAN RICHARD ORKIN 658 MURRAY HILL WESTMOUNT QUE	M SC 2 HU 6 4931	FRETZ RUDOLF 160 BROCK AVE N MONTREAL WEST QUE	B ENG 1 HU 4 6386
FREEDMAN SANDRA JUDITH 6185 WILDERTON CRES MONTREAL QUE	B SC 4 RE 8 1622	FREY NORMA CLAIRE 456 PINE AVE W APT 8 MTL 901 11 GALVESTON TEXAS USA	M BW 2 VI 9 3158
FREEDMAN SHIRLEY 4635 CLARRENALD AVE APT 108 MONTREAL QUE	3 TCHRS HU 4 2050	FREYMAN ANDREW JACK 631 MILTON ST APT 5 MTL 481 216TH ST R R 1 LANGLEY B C	M SC 2 VI 2 0121
FREEDMAN STUART GEORGE 4513 MELROSE AVE MONTREAL QUE	B COM 1 HU 4 0789	FRICK AKOS 80 PINE AVE W APT 208 MONTREAL QUE	B ARCH 5 VI 2 7419
FREEDMAN SUSAN FRANCES 113 SUNNYSIDE AVE WESTMOUNT QUE	B A 2 HU 1 9760	FRIED ALLAN HARVEY 5710 LEGER AVE COTE ST LUC QUE	B SC 4 HU 8 3362
FREEDMAN SYLVIA BETH 4637 KENT AVE MONTREAL QUE	B A 1 RE 3 6798	FRIEDBERG HERBERT A 2320 GOVER MONTREAL QUE	B ENG 2 RE 3 3308
FREEDMAN VIVIAN 6608 NICE RD MONTREAL QUE	B SC 4 HU 4 6002	FRIEDMAN LINDA SHARON 46A PERRAULT ST STE ANNE DE BELLEVUE QUE 4601 LACOMBE AVE MONTREAL QUE	3 TCHRS
FREEDMAN YEHUDI 4782 COTE ST CATHERINE MONTREAL QUE	B ENG EL 3 RE 3 6022	FRIEDMAN MONA CLAIRE 316 DUFFERIN RD HAMPSTEAD QUE	M S D DIP HU 8 4100
FREEMAN CAROL HARRIET 4922 LACOMBE AVE MONTREAL QUE	B SC 1 RE 8 5328	FRIEDMAN NORMAN 4952 PLAMONDON MONTREAL 29 QUE	B COM 3 RE 3 5464
FREEMAN DAVID IAN 3479 SHUTER ST APT 7 MTL CENTRAL EXPERIMENT STM CENTENO ARIMA PO TRINIDAD W I	B SC 2 VI 5 9680	FRIEDMAN SANDRA SUEAN 4622 LACOMBE AVE MONTREAL QUE	B A 1 RE 7 4392
FREEMAN GERALD BORDEN 3070 VAN HORNE AVE APT 3 MONTREAL QUE	B C L 3 RE 7 7881	FRIEDMAN SEYMOUR RONALD 4640 LACOMBE AVE MONTREAL QUE	B ENG EL 4 RE 7 5303
FREEMAN MILTON M R 2070 UNION AVE APT 11 VINCENT HOUSE VINCENT SQUARE LONDON S W 1 ENGLAND	M SC 2	FRIEND DOUGLAS W BOX 153 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	PH D 3
FREEMAN ROGER DANTE 6655 DECELLES AVE MONTREAL QUE	MED DIPL 1 RE 9 6418	FRISMANIS INTA 5140 KING EDWARD AVE MONTREAL 29 QUE	B SC 3 HU 9 8983
FREEMAN STANLEY 3088 SHERBROOKE ST W MTL 2198 CRUGER AVE BROOK NEW YORK USA	D D S 3 WE 3 6124	FRITZ CAROLE M STEWART HALL 601 STANSTEAD AVE TOWN OF MT ROYAL QUE	B SC M EC 2
FREI FRANCES J 4500 POWELL AVE MONTREAL QUE	M S W 2 RE 3 3559	FRITZ HOWARD MILES 601 STANSTEAD AVE TOWN OF MT ROYAL QUE	B ENG MET 3 RE 7 4742
FREI JAROSLAV VACLAV 4835 COTE ST CATHERINE MONTREAL QUE	M SC 1 RE 3 6028	FRODYMA STANLEY HENRY 3777 COTE DES NEIGE RD 88 HIGH ST MOLYOKE MASS USA	D D S 4 WE 3 4080
FREIHIT MORTIMER GERALD 4935 HAMPTON MONTREAL QUE	B A 1 HU 8 0643	FROESE ARNOLD 29 PROSPECT ST WENT 797 QUEEN S AVE LONDON ONT	PH D 3 WE 2 5330
FREIMAN MARGO ROYAL VICTORIA COLLEGE 250 SYLVAN RD ROCKCLIFFE OTTAWA ONT	B A 4 VI 9 0120	FROMBERG HERBERT JOEST 1547 MCGREGOR ST MTL 272 BYRON AVE OTTAWA ONT	B SC 4
FRENCH DORIS VIOLET 48 MAPLE DR R R 2 STE GENEVIEVE DE PIERREFONDS QUE	B SC M ED 1	FROMMOVIC MAURICE MONY 1010 JEAN TALON WEST MONTREAL QUE	B SC 1 CR 4 5770

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FROST ALAN CHESTER 111 SUMMIT CIRCLE WESTMOUNT QUE	B SC 4 MU 6 7581	GAGNON JOSEPH EMILE DENIS MACDONALD COLLEGE LIMOGES ONT	B SC AGR 1
FRUCHTER IRWIN 4730 VAN HORNE AVE MONTREAL QUE	B ENG 1 RE 9 4665	GAHERTY GEOFFREY G 636 BYDENHAM AVE MONTREAL 6 QUE	B SC 2 MU 4 2402
FRUMKIN HARVEY 5436 TRANS ISLAND AVE MONTREAL QUE	B A 4 MU 1 9763	GAILIE LAIMONIE 803 86TH AVE L ABOARD A PLOUFFE QUE	B SC 3 MU 1 7788
FRY COURTNEY STEWART C 3466 JEANNE MANCE ST MONTREAL QUE	B A 2	GAIRDNER WILLIAM DOUGLAS 3431 DRUMMOND ST MTL 1138 YONGE ST THORNHILL ONT	B A 1 VI 9 0243
FRY EDMUND ARTHUR C 20389 LAKEHORE RD BAIE D'URFEE QUE	B SC 2	GALARNEAU JOHN ROBERT 6217 LA SALLE VERDUN QUE	B ENG CIV 5 PO 7 0609
FRYER JOHN RAYMOND 9800 15TH AVE VILLE ST MICHEL QUE	B SC 4 DA 1 2238	GALE ANNE ROSE 190 DUKE OF KENT PTE CLAIRES QUE	PARTIAL OX 7 0986
FRYMAN BERNARD 5348 COOLBROOK AVE MONTREAL QUE	B SC 4	GALE CHARLES WATT 3431 DRUMMOND ST MTL 78 BUENA VISTA ROCKCLIFFE OTTAWA 2 ONT	B A 1 VI 9 0243
FULCHER JESSIE MORRISON 19 CAMPBELL AVE MONTREAL WEST QUE	B SC 3 MU 6 3488	GALILEO CARMEN JAMES 9552 CLARK ST MONTREAL QUE	B C L 1 DU 1 3256
FULEKI TIBOR P O BOX 179 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	M SC 1	GALPEAULT ANDRE 3325 MAPLEWOOD AVE APT 303 MONTREAL QUE	B C L 4 RE 7 0576
FULLER IAN 4568 MELROSE AVE MONTREAL QUE	B ENG CH 3 MU 6 6817	GALL HUGH W 4696 GROSVENOR AVE MONTREAL QUE	B ENG 2 MU 8 3180
FULTON EVERTS W 3440 SHUTER ST APT 34 MTL 57 W BURTON PL CHICAGO 10 ILL USA	B A 1	GALL LORNA MARGARET MACDONALD COLLEGE 385 37TH AVE LACHINE QUE	2 YCHRS 1
FULTON LAUREL ANNE ROYAL VICTORIA COLLEGE 106 QUEEN ST TRURO NOVA SCOTIA	B A 1 VI 2 0327	GALL ROBERT JOHNSTON 3405 GRAND BLVD MONTREAL 28 QUE	MD CM 1 MU 4 0623
FUNG CHING 3817 HUTCHISON ST MTL 11 TIM LOK LANE 3RD FLR HONG KONG	B ENG CIV 4 VI 9 0109	GALLAGHER THOMAS J 475 PINE AVE W MTL 329 BELMONT AVE HAMILTON ONT	M S W 2 VI 4 7030
FUNG FRANKLIN KAI KEI 284 PRINCE ARTHUR ST W 51 BLUE POOL RD OR FL HONG KONG	B SC 3 VI 4 6264	GALLAND FRANCES 55 DELAVIGNE RD WESTMOUNT QUE	B A 4 WE 3 9618
FUNG ROBERT HING PIU 3885 DUPUIS AVE APT 19 14 SOUTH BAY RD HONG KONG	MD CM 4 RE 8 3033	GALLAY HENRY MORTON 3515 VAN HORNE AVE APT 6 MONTREAL QUE	B A 4 RE 3 1019
FUTTER EIKE 8551 BIRNAM AVE APT 5 MTL R R 1 PORT ELGIN N B	B SC AGR 1 OR 7 5431	GALLAY RALPH DOUGLAS HALL 490 CLOVERDALE RD ROCKCLIFFE PK OTTAWA 2 ONT	B ENG CH 3 AV 8 1854
GAETZ ELINOR L ROYAL VICTORIA COLLEGE 8 PARK ST W COPPER CLIFF ONT	B A 2 VI 2 0477	GALLER ANNE MARIE 3780 DUPUIS AVE MONTREAL 26 QUE	M L B 1
GAETZ NORMAN DOUGLAS 2024 METCALF ST APT 4 1686 LINCOLNSHIRE BLVD PORT CREDIT ONT	B COM 3	GALLEY ANN NORTON ROYAL VICTORIA COLLEGE 22 IVOR RD TORONTO 12 ONT	B SC 1 VI 2 0829
GAGNON DOMINIQUE 3795 VAN HORNE AVE MONTREAL QUE	B ENG EL 3 RE 7 6163	GALLO ERNEST A 3480 DUROCHER AVE MTL R R 1 NIAGARA BLVD PORT ERIE ONT	B ENG 2
GAGNE LEONARD LEO 1885 MCGREGOR MTL 181 CYR ST W THETFORD MINES QUE	B ENG CIV 4	GALLOWAY ALEXANDER LLOYD 485 VICTORIA AVE WESTMOUNT QUE	B ENG 1 WE 2 3770
		GALLOWAY DONALD JAMES 485 VICTORIA AVE WESTMOUNT QUE	B ENG CIV 4 WE 2 3770
		GALLOWAY JOHN HERBERT 485 VICTORIA AVE WESTMOUNT QUE	B A 4 WE 2 3770

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GALLUP JENNIFER J 7355 CARTIER ST MONTREAL 35 QUE	B A 2 RA 8 4795	GARIEPY YVON 1395 DUTRISAC VILLE ST LAURENT QUE	PARTIAL RI 7 6607
GALLUP JOAN AMANDA MACDONALD COLLEGE P O BOX 78 MELBOURNE QUE	2 TCHRS 1	GARLAND STEPHEN TERRENCE DOUGLAS HALL P O BOX 966 SUDBURY ONT	B COM 4 VI 5 2375
GAMACHE JOSEPH GERARD P 1455 DUTRISAC VILLE ST LAURENT QUE	MED DIPL RI 8 8025	GARMAISE LAWRENCE MORTON 3650 MOUNTAIN ST APT 304 MONTREAL QUE	PARTIAL VI 5 4679
GAMBLE RONALD W BRITTAIN HALL 250 GRAHAM BLVD DORVAL QUE	B SC AGR 2	GARMAISE MICHAEL LYON 6040 WILBERTON AVE MONTREAL QUE	B A 4 RE 8 3605
GAMEROFF PEARL S 3295 RIDGEWOOD AVE APT 31 MONTREAL QUE	PARTIAL RE 1 0289	GARNER GRAHAM DAVID 583 ALGONQUIN AVE TOWN OF MT ROYAL QUE	B A 3 RE 7 6313
GAMEROFF ROSALIND B 4910 MIRA RD MONTREAL QUE	B SC P OT 2 HU 4 3434	GARRAWAY MICHAEL OLIVER BOX 207 MACDONALD COLLEGE C O P A ROLLE P O BOX 3 ROSEAU DOMINICA T W I	M SC 1
GAMEROFF SANDRA SORREL 736 WILDER AVE OUTREMONT QUE	B A 4 RE 8 1577	GARRETT JAMES GORDON 2392 LOCKHART AVE TOWN OF MT ROYAL QUE	B ENG EL 4 RE 9 0209
GAMUS ABRAHAM 2720 DARLINGTON PL APT 34 MONTREAL QUE	B ENG COM 5 RE 7 9079	GARRISON ROSE ALLEN 5285 WALKLEY AVE MONTREAL 29 QUE	PH D 4 HU 9 7366
GAMWELL JOHN WHITE DOUGLAS HALL 1508 RIVERVIEW AVE PEEKSKILL NEW YORK USA	MD CM 1 AV 8 9083	GARTNER JACK ISSIE 4785 VICTORIA AVE MONTREAL QUE	B ENG 1 HU 1 8849
GANDHI SUNIL K 3615 DUROCHER ST MTL PURUSHOTTAM BLDG 4 B TRIBHURAN RD BOMBAY 4 INDIA	M SC 2 VI 4 6977	GARVEY JULIUS WINSTON 3528 LORNE AVE MONTREAL QUE	MD CM 3 VI 5 9355
GARAND LOUISE 80 PINE AVE W APT 310 MONTREAL QUE	M S W 2 AV 8 9619	GARVIS ARTHUR 4764 DE LA PELTRIE ST MONTREAL QUE	B CL 4 RE 9 4367
GARCEAU JEAN MACDONALD COLLEGE BOX 250A SAULIEVE THREE RIVERS QUE	B SC AGR 1	GASS KATHERINE SUSAN ROYAL VICTORIA COLLEGE NORTH RIVER ROAD CHARLOTTETOWN P E I	B SC 1
GARCIA CARMEN DIANA ROYAL VICTORIA COLLEGE APT 235 CARACAS VENEZUELA	B A 1 VI 2 0537	GATENOUSE BARBARA MARY O 15 CHURCH HILL WESTMOUNT QUE	B SC 3 WE 2 0795
GARCIA ABARCA VITAL 480 PRINCE ARTHUR MTL CRUCERO ANDREWS 14 CIUDAD TRUJILLO DOMINICAN REPUBLIC	B ARCH 1 VI 9 2840	GAUM WINSTON ELLIOT 3851 UNIVERSITY ST MTL 18 HOWE ST SYDNEY N S	B SC 3 VI 5 4851
GARDECKY WALTER JOHN 2169 OLD ORCHARD AVE MONTREAL 28 QUE	B A 1 HU 4 6493	GAUNCE ALAN P BRITTAIN HALL 58 ST ANDREW AVE BEACONSFIELD QUE	B SC AGR 2
GARDNER ROBERT WILSON 3551 UNIVERSITY ST APT 3 716 FIFTH ST EUREKA CALIF USA	MD CM 1 AV 8 8075	GAURYS ALDONA 7730 BROADWAY ST VILLE LA SALLE QUE	B A 1 PO 6 8528
GARELICK BRENDA 20A MAPLE ST STE ANNE DE BELLEVUE QUE	3 TCHRS	GAUTHIER FRANCOIS 10739 GRAND ALLEE MONTREAL QUE	B COM 4 DU 8 1410
GARELICK TEENA TOBA 5254 GLOBERT AVE MONTREAL QUE	B A 3 HU 6 2298	GAUTHIER JACQUES 2585 VAN HORNE APT 4 MONTREAL QUE	B ENG PWR 5 RE 3 5102
GARLEK ABRAHAM LEON 715 DE LEPÉE AVE OUTREMONT QUE	D D B 3	GAUTHIER MARY MADELEINE 18 BALLANTYNE SOUTH MONTREAL WEST QUE	GRAD DIP 1 HU 6 7419
GARFINKLE SUSAN ANN ROYAL VICTORIA COLLEGE 1 DOUGLAS AVE WESTMOUNT QUE	B A 4 VI 2 0327	GAUTHIER PATRICE 3449 PEEL ST MTL 203 REILLY ROBYN QUE	B ARCH 2
GARGANO JOHN 753 6TH AVE LACHINE QUE	B SC 2 ME 7 4828	GAUZE JOSEPH 4747 CARLTON AVE MONTREAL QUE	B A 4 RE 3 4506
GARIEPY RENAULT 760 DAVAAR AVE OUTREMONT QUE	B CL 1 CR 1 6842	GAVANSKI MILAN 2300 TUPPER ST MTL 21 DUELLA RIJEKA YUGOSLAVIA	MED DIPL 1

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GAVIN MARGARET J 264 34TH AVE LACHINE QUE	B SC ME 7 7389 2	GEORGE MARY AUDREY 468 MOUNT STEPHEN AVE WESTMOUNT QUE	B A 4 WE 7 2257
GAVIE PHYLLIS LEE 5087 VICTORIA AVE MONTREAL QUE	B A RE 7 6360 4	GEORGE MICHAEL D 6540 15TH AVE MONTREAL 36 QUE	B SC 1 RA 2 7479
GAWNE ROGER EDEN 3482 MCTAVISH ST MTL THE RECTORY DEVONSHIRE BERMUDA	B COM VI 4 0053 1	GEORGIADIS JOHN 4368 FULLUM ST MONTREAL 34 QUE	B A 3 LA 2 3435
GAWROSKI JOHN JAMES 570 MILTON ST MTL 28 LEMING ST DUNKIRK NEW YORK USA	PH D VI 9 8535 2	GERACIMO MARIA 30 STRATHCONA DR TOWN OF MT ROYAL QUE	MUS B 1 RE 7 7749
GAY GEORGE RICHARD 24 SUNNYSIDE AVE LAKESIDE QUE	M A OX 5 3230 1	GERGELY PETER 3610 DUROCHER APT 12 MTL 5882 DOLBEAU ST MONTREAL QUE	B ENG AM 5 VI 4 7620
GEDDES DIANE ROBALIND 6 PARK PL APT 15 MONTREAL 6 QUE	B A WE 2 8606 1	GERSHBERG SIDNEY MARVIN 4627 CARLTON AVE MONTREAL QUE	B A 1 RE 3 6776
GEHRER LESLIE 3508 SHUTER ST MONTREAL QUE	PH D VI 4 3445 2	GERSON SANDRA MACDONALD COLLEGE 615 ALEXIS NIMON BLVD VILLE ST LAURENT QUE	3 TCHRS
GEIGER SIEGFRIED GOERIBRIED BAYERN GERMANY	B ENG MCH 1	GERSOVITZ GERALD LOUIS 5015 GLENCAIRN RD MONTREAL 26 QUE	B SC 1 HU 6 3800
GELBART ARNOLD 403 ST JOSEPH BLVD W OUTREMONT QUE	B ARCH CR 2 4769 3	GERSOVITZ MYRNA B 5015 GLENCAIRN RD MONTREAL 26 QUE	B ENG 2 HU 4 5055
GELBER HERMAN 8572 BIRMAN ST MONTREAL 15 QUE	MD CM CR 2 7192 4	GERTEL MORRIS 2960 BRIGHTON AVE APT 7 MONTREAL QUE	MD CM 1 RE 3 8848
GELFAND BRAHM MARVIN 4422 MARCEL AVE MONTREAL QUE	B CL 3	GERTSMAN STEPHEN Y 946 DUNLOP AVE OUTREMONT QUE	B ENG 2 RE 3 0493
GELFAND ERWIN W 6607 FLEET RD COTE ST LUC QUE	B SC HU 4 8377 2	GERVAIS LAURENT 5253 KING EDWARD AVE MONTREAL 29 QUE	MED DIPL 3 HU 1 8093
GELFAND MERVIN RICHARD 2335 ST LOUIS ST VILLE ST LAURENT QUE	M A RI 7 7388 1	GERVAIS ROLAND JEAN J 5965 45TH AVE MONTREAL 36 QUE	B ENG 1 CL 6 7636
GELINAS LEO PAUL 3882 DUROCHER ST 175 2ND ST SHAWINIGAN QUE	B ENG EL 3 VI 4 0843	GERVAN SUZANNE JEAN 7350 CHURCHILL RD TOWN OF MT ROYAL QUE	B A 2 RE 1 6187
GELLERT JUDITH 4650 CLANRAHALD AVE APT 18 MONTREAL QUE	PARTIAL HU 1 0569	GEWURZ MUNDI F 636 DUNLOP AVE OUTREMONT QUE	M S W 1 RE 3 9873
GEMMELL THELMA ANN STEWART HALL MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	2 TCHRS 2	GEWURZ SAMUEL 636 DUNLOP AVE OUTREMONT QUE	B A 3 RE 3 2993
GEMMELL THOMAS 3485 MCTAVISH ST MTL 48 VIMY AVE CORNWALL ONT	B A VI 4 0424 4	GHERT BERNARD IRVIN DOUGLAS HALL 2016 5TH AVE S LETHBRIDGE ALTA	B SC 4 VI 5 5998
GENENDER LINDA JOAN 2280 SHERIDAN RD MONTREAL QUE	B A RE 9 1239 1	GHILCIO TOSIOS 2760 VAN HORNE APT 3 MONTREAL QUE	B ENG EL 4 RE 9 2672
GENENDER STEPHEN EARL 4 KELVIN AVE OUTREMONT QUE	B SC RE 8 2731 1	GHOSH AMAL CHANDRA 396 MONTARVILLE LONGUEUIL QUE	PH D 3 OR 4 4336
GENEREUX GEORGE DOUGLAS HALL 315 POPLAR CRES SASKATOON SASK	MD CM 4	GHOSH MIKHIL RANJAN 3615 UNIVERSITY ST MTL 40 SOUTH RD SANTOSH PUR P O JADANPUR CALCUTTA 37 WEST BENGAL INDIA	PH D 2
GENSER DAVID E DOUGLAS HALL 280 HARVARD WINNIPEG MAN	B A 2	GIACOMELLI JULIAN FRANK 3434 MCTAVISH ST MTL CAMP HILL SOUTHAMPTON EAST BERMUDA	B SC 3 VI 2 4492
GENTLEMAN LORNA I R 8081 UPPER LACHINE RD MONTREAL WEST QUE	B ED 3 HU 8 8577	GIANNAKAKIS CONSTANTIN ASCLEPIOU ST ATHENS GREECE	B ENG PWR 5
GEORGARAS NICHOLAS 44 CHABANEL W APT 8 MONTREAL QUE	B SC 1 DU 9 6440		

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GIANNETTI ALFRED 8782 TOLMURST ST MONTREAL QUE	B ENG CIV 4 DU 1 5550	GILBERT ELEANOR MERLE 4992 BORDEN AVE MONTREAL QUE	B SC POT 1 HU 4 6984
GIANSANTE JEAN 2042 ST ZOTIQUE ST E MONTREAL QUE	B ENG MET 4 RA 8 2229	GILBERT JAMES WILLIAM 41 PINE AVE W APT 4 MTL 222 18TH AVE ST EUSTACHE SUR LE LAC QUE	B ENG MI 5
GIBB BARBARA ALICE MACDONALD COLLEGE 1004 MELROSE AVE VERDUN QUE	2 TCHRS	GILBERT JOSEPH JERRY 5169 JEANNE MANCE ST APT 3 MONTREAL QUE	B SC 3 CR 2 7862
GIBBARD GEORGE W 2 KENT ST MONTREAL QUE	B SC AGR 4	GILCHRIST DONALD WILMOTT 3777 COTE DES NEIGES RD 1225 HERON RD OTTAWA ONT	D DB 4 WE 3 4080
GIBSON TIMOTHY ROYAL VICTORIA COLLEGE 129 E HARTWELL LANE PHILA 18 PA USA	B A 2 VI 2 0495	GILDAY DAVID 181 GLENCOVE AVE TOWN OF MT ROYAL QUE	B ENG EL 3 RE 8 5413
GIBSONS MICHAEL 4453 EARNESCLIFFE AVE MONTREAL QUE	B ENG PHY 4 HU 6 6195	GILDEN LLOYD 3590 RIDGEWOOD AVE MONTREAL QUE	MA 1 RE 3 6268
GIBSONS RANDALL BRUCE 2039 MC GILL COLLEGE AVE APT 23 MTL FOLKESTONE ST JAMES ST JAMES BARBADOS T W I	B A 1 VI 9 8400	GILDEN ROSLYN 210 DUFFERIN RD HAMPSHIRE 29 QUE	B A 1 HU 4 3024
GIBSONS ROBERT ERNEST 3661 SAINT FAMILIE ST MTL TUCKERS TOWN BERMUDA	D DB 1 VI 9 3106	GILFILLAN JOHN DOHERTY 317 MORRISON AVE TOWN OF MT ROYAL QUE	B ENG MCH 3 RE 7 9263
GIBSONS VALERIE ANN 4453 EARNESCLIFFE AVE MONTREAL QUE	B SC 2 HU 6 6195	GILL BRENTON MACGREGOR 8045 BISHOP ST APT 9 MTL P O BOX 113 ST VINCENT B W I	B ENG MCH 5 VI 9 2995
GIBSON JOHN CONRAD 428 SHERBROOKE W APT 25 2524 W 90TH KANSAS CITY MISSOURI USA	MD CM 3 AV 8 1464	GILL GEORGE ANTHONY D 3508 DUROCHER ST MTL 50 NEW ST PORT OF SPAIN TRINIDAD W I	B ARCH 2 VI 9 4352
GIBSON JOHN GEORGE 4203 OXFORD AVE MONTREAL QUE	B COM 2 HU 4 6492	GILL JOYCE M 1230 WAGRAM AVE MONTREAL SOUTH QUE	B SC M 2 OR 4 9503
GIBSON MARGARET SARAH ROYAL VICTORIA COLLEGE WELLWOOD MAN	PH D 2 VI 2 0113	GILL LOUIS JOSEPH 51 NELSON MONTREAL B QUE	B ENG EL 4 CR 1 5534
GIBSON NATASHA MACDONALD COLLEGE 18 STRATHMORE BLVD STRATHMORE QUE	2 TCHRS 1	GILL MARILYN 1230 WAGRAM AVE MONTREAL SOUTH QUE	B A 1 OR 4 9503
GIBSON ROBERT PAUL 26 RICHELIEU RD FORT CHAMBLEY QUE	B A 1	GILLAIN PIERRE RENE 5082 CHASOT MONTREAL QUE	M SC 1 CR 1 2181
GIBSON RONALD GILLIES ST BRUNO PROTESTANT SCH ST BRUNO QUE	M A 2	GILLESPIE PETER JAMES 630 CLARKE AVE WESTMOUNT QUE	B SC 2 WE 2 7633
GIGANTES TERRY 3433 DUROCHER ST APT 208 MONTREAL QUE	M A 2 VI 9 7464	GILLESPIE THOMAS B 630 CLARKE AVE WESTMOUNT QUE	B CL 1 WE 2 7633
GIGUERE JOSEPH CHARLES A 1463 BISHOP ST MTL C O J M GIGUERE R C A F ST JEAN QUE	B ENG COM 5 VI 9 1589	GILLET PETER GEORGE 3478 MCTAVISH ST MTL 150 OVERHILL RD YOUNGSTOWN OHIO USA	MD CM 1 VI 2 7412
GIGUERE RAYMOND C 577 INVERNESS AVE TOWN OF MT ROYAL QUE	B COM 1 RE 8 6494	GILLETZ HARRIET SARA MACDONALD COLLEGE 6282 DEACON RD MONTREAL B QUE	3 TCHRS
GIL OLGA JOAN 2055 ST MARG ST 1018 ABERDEEN AVE WINNIPEG 4 MAN	B L B 1 WE 5 2230	GILLIES IAN BUCHANAN WILSON HALL 44 HAMILTON AVE GLASGOW B 1 SCOTLAND	B COM 2
GILBERT ANTHONY ROBIN B 3136 THE BOULEVARD MONTREAL QUE	B SC 2 WE 2 9480	GILLIES NANCY ANN STEWART HALL B LAWSON ST EDMUNDETON B	3 TCHRS 2
GILBERT CHRISTOPHER J 3 ST GEORGE ST STE ANNE DE BELLEVUE QUE BOX 133 SOMERSET WEST CAPE PROV SOUTH AFRICA	B SC AGR 3	GILLINGHAM CYNTHIA E 5809 BOILEAU ST MONTREAL B QUE	H B D DIP CL 5 3106
		GILLMAN BARBARA ANN ROYAL VICTORIA COLLEGE 401 LEMESURIER AVE QUEBEC CITY QUE	B A 3 VI 2 0397

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GILLMAN REBECCA SUZAN 6686 CLAMRANALD AVE MONTREAL QUE	B SC N RE 7 4381	GLICK HYMAN 4563 CLARK ST MONTREAL QUE	B SC 3 AV 8 3810
GILMAN STUART EDWARD 5798 DARLINGTON AVE MONTREAL QUE	B SC RE 7 8312	GLICKMAN MELVYN JACOB 4220 WESTHILL AVE MONTREAL QUE	B ARCH 2 HU 4 5409
GILMORE GORDON HERBERT 513 COTE ST ANTOINE RD WESTMOUNT QUE	B SC HU 6 8745	GLORIEUX DOMINIQUE 3192 THE BOULEVARD WESTMOUNT QUE	B ENG MET 3 WE 2 5935
GILMOUR SUSAN ELLEN 362 KENSINGTON AVE WESTMOUNT QUE	B SC P OT WE 2 1982	GLORIEUX FRANCIS 3192 THE BOULEVARD WESTMOUNT QUE	B ENG EL 4 WE 2 5935
GINSBERG JANCO EDNA 3455 STANLEY ST APT 210 MONTREAL QUE	MUS B VI 4 4376	GLOUBERMAN DAVID 6645 MOUNTAIN SIGHTS AVE MONTREAL QUE	B ENG 1 RE 8 4504
GIORDANO ISA MARY B 2357 TERRACE QUINDON MONTREAL QUE	B A LA 1 9186	GLOUBERMAN SEYMOUR 1915 BARCLAY AVE MONTREAL QUE	B A 3 RE 7 5530
GIRDLE EMILY ANNE 1311 MOFFAT AVE VERDUN 19 QUE	2 TCHRS	GLOUTNEY PETER ROBERT L J 1986 MASSON MONTREAL QUE	B A 3 LA 5 7839
GIRUNAS VITALIA 1557 DE SEVE ST MONTREAL QUE	D D B PO 8 4721	GODE RICHARD OLIVER 3475A STANLEY ST APT 18 BURNT MILLS NEW YORK USA	MD CM 4 VI 5 7798
GIROLAMI SILVIO LIBERO 8392 REIMS ST MTL 546 NORMANDIE ST ARVIDA QUE	B SC DU 9 3176	GODET MARTIN SCOTT 3434 MCTAVISH ST MTL PAGET BERMUDA	B A 3 VI 2 4492
GIRVIN JOHN PATTERSON 3640 HUTCHISON ST APT 2 MONTREAL QUE	PH D VI 5 5914	GODFREY MARVIN JULIAN 1030 BALL AVE APT 3 MONTREAL QUE	B A 3 CR 1 5986
GITLITZ MELVIN HYMAN 2775 BARCLAY AVE APT 8 MONTREAL QUE	B SC RE 3 6831	GODIN ROBERT PAUL 3660 MENTANA ST MONTREAL QUE	B CL 1 LA 5 7129
GIULIANI RICHARD KENNETH 10820 VERVILLE ST MONTREAL QUE	B SC DU 1 3280	GODLEY JOHN B WILSON HALL 628 ROBINSON RD APT A 4 HONG KONG	B SC 2 VI 4 0624
GIVAS JOAN KATHERINE 3492 PEEL ST 15 SHELLEY RD SPRINGFIELD N J USA	M SC VI 2 7362	GODWIN BRUCE PLAYFAIR 1500 STANLEY ST APT 409 133 CRESCENT EB TORONTO 5 ONT	B ENG 1 VI 9 3123
GLADSTONE ALEX 4297 7TH ST L ABOUR A PLOUFFE QUE	M S D DIP MU 1 4775	GODWIN DAVID BRANDON 453 STRATHCONA AVE WESTMOUNT QUE	B ENG 1 WE 4 1220
GLANZ LIANE 4878 GROSVENOR AVE MONTREAL QUE	PARTIAL RE 3 1118	GOKHALE SVNANDA 3563 UNIVERSITY ST APT 31 MONTREAL QUE	M A 1 VI 4 8440
GLASS JAMES R 3633 OXENDON AVE MTL 515 LOCK ST DUNNVILLE ONT	B SC AV 8 6896	GOLBA HENRY EDWARD 3548 BANGURAND ST MONTREAL QUE	B ARCH 6 RA 2 1574
GLAZER ELAINE 876 DOLLARD AVE OUTREMONT QUE	B ED CR 1 5751	GOLBERG MICHAEL ARTHUR 4925 CUMBERLAND AVE MONTREAL QUE	B SC 2 HU 1 2029
GLAZER VICTOR HARVEY 876 DOLLARD AVE OUTREMONT QUE	B ENG CR 1 5751	GOLD DAVID PERCY 3563 UNIVERSITY ST APT 7 MONTREAL QUE	PH D 4 VI 9 8844
GLEH CATHERINE ELIZABETH 403 CRESCENT ST ST LAMBERT QUE	B A CR 1 7346	GOLD JESSICA JUNE 5545 COTE ST LUC RD MONTREAL QUE	B A 1 HU 9 6341
GLEMBENNING KATHERINE J 3459 DRUMMOND ST MTL 285 NORTH AVE WAKEFIELD MASS USA	GRAD DIP GRAD DIP 1	GOLD LAURAINNE HARRIET 5318 SNOWDON APT 44 MONTREAL QUE	B SC 3 HU 4 6496
GLENNIE JONET CARR 46 ACADEMY RD APT 18 WESTMOUNT QUE	B SC B SC 1	GOLD MICHAEL RICHARD 4752 GIRCLE RD MONTREAL QUE	B COM 3 HU 1 9139
GLENNIE THOMAS C 3485 MCTAVISH ST MTL OXFORD N B	B SC VI 4 0424	GOLD PHIL 2110 BEDFORD RD MONTREAL QUE	MD CM 3
GLICK HARRY 4563 CLARK ST MONTREAL QUE	MD CM AV 8 3810	GOLD RHODA VIVIAN 4582 STANLEY WEIR ET MONTREAL QUE	B A 1 RE 1 6694
		GOLD ROBERT DONALD 5115 MAYFAIR AVE MONTREAL QUE	M A 2 HU 4 7074

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GOLD TERRI LEE 644 WESTLUKE AVE COTE ST LUC QUE	B SC 1 HU 9 2235	GOLDSTEIN NORMAN PHILLIP 707 VICTORIA AVE WESTMOUNT QUE	B SC 3 HU 6 5877
GOLDBERG ELAINE SANET 4976 GLENCAIRN AVE MONTREAL QUE	PARTIAL HU 1 9712	GOLDBSTEIN SHEILA G 4990 JEAN BRILLANT MONTREAL QUE	B A 2 RE 8 7617
GOLDBERG GERALD SOLOMON 5590 CAMPDEN PL MONTREAL 26 QUE	B COM 1 RE 8 1954	GOLDBSTEIN STANLEY EDWARD 4640 PLAMONDON AVE APT 6 MONTREAL QUE	MD CM 4 RE 8 5597
GOLDBERG HENRY 5407 CLARK ST MONTREAL QUE	B SC 1 CR 4 7179	GOLDWATER JO ANN 279 SHERATON DR MONTREAL WEST QUE	B SC P OT 2 HU 4 8668
GOLDBERG JUNE YOLANDA 4553 CIRCLE RD MONTREAL QUE	B A 4 HU 6 3301	GOLDWATER SYDNEY GEOFFREY 1560 BERNARD ST W OUTREMONT QUE	B SC 3 CR 2 9395
GOLDBERG SAM 4294 CLARK ST MONTREAL 18 QUE	PARTIAL VI 2 5369	GOLFMAN WALTER G 5316 TRANS ISLAND AVE MONTREAL QUE	B ARCH 2 HU 6 5427
GOLDBERG URI 6210 DEACON RD APT 14B MONTREAL 8 QUE	B ENG 2 RE 3 0583	GOLFMAN WILLIAM ROBERT 720 KENASTON AVE TOWN OF MT ROYAL QUE	B A 1 RE 8 8521
GOLDBLOOM SHEILA 5 GROVE PK WESTMOUNT QUE	M S W 1 WE 3 5079	GOLIGHTLY JOHN PAUL 960 44TH AVE MONTREAL QUE	B SC 3 ME 7 8668
GOLDEN ALAN Z 4067 VENDOME AVE MONTREAL QUE	B C L 1 HU 1 2457	GOLLOB BARBARA 5626 ELDRIDGE AVE COTE ST LUC QUE	B A 1 HU 4 3097
GOLDEN BARBARA M 51 PERRAULT STE ANNE DE BELLEVUE QUE	B ED 8 HU 6 9024	GOLLOB SANDRA 5626 ELDRIDGE AVE COTE ST LUC QUE	B A 3 HU 4 3097
GOLDENBERG MARVIN HENRY 5337 CUMBERLAND ST MONTREAL 28 QUE	MD CM 3 HU 8 3233	GOMBAY MARGARET BRYDON 1A WEREDALE PK WESTMOUNT QUE	MA 1 WE 7 0096
GOLDENBLATT DAVID 6825 SOMERLED AVE MONTREAL QUE	B A 3 HU 6 4227	GOMEZ ROBERT FROILAN 3466 MCTAVISH ST MTL C O JOSE C GOMEZ APARTADO 1715 HAVANA CUBA	MD CM 1
GOLDFIELD ETHEL 1315 VAN HORNE AVE APT 1 OUTREMONT QUE	B C L 3 CR 6 5150	GONDER ELEANOR ANNE 3480 ONTARIO AVE MTL 1112 MAIN ST MONCTON N B	MD CM 2 VI 2 0044
GOLDMAN LEWIS HAYE 3441 PEELE ST MTL 1000 PARK AVE NEW YORK 28 N Y USA	B A 2 VI 4 0341	GONSALVES EDWARD MERVYN CHARLESTOWN SAW MILLS GEORGETOWN BRITISH GUIANA S A	B ENG 1
GOLDMAN SUSAN K 5822 WESTLUKE AVE COTE ST LUC QUE	B SC 2 HU 6 9024	GONSALVES NEIL IGNATIUS 201 METCALFE AVE APT 103 44 CEDAR ST FREEPORT N Y USA	MD CM 1 WE 7 8746
GOLDNER TOBA LAIRD HALL 3020 VAN HORNE AVE APT 9 MONTREAL QUE	2 YEARS 1	GONZALEZ NELSON ABEL 258 SHERRBROOKE ST W MTL MAXIMO GOMEZ AVE APT 62 CIUDAD TRUJILLO DOMINICAN REPUBLIC	B SC 1
GOLDNICH ABRAHAM I 4016 CITY HALL AVE MONTREAL QUE	MA 2 VI 9 1881	GONZALEZ VICTOR J 3479 SHUTER ST APT 7 MTL 16 SCOTT BUSHE ST PORT OF SPAIN TRINIDAD T W I	B ENG 2 VI 5 9620
GOLDSCHLEGGER ROBERT M 768 UPPER BELMONT AVE WESTMOUNT QUE	B A 3 HU 1 4839	GOOCH DIANA JUDITH 336 LETHBRIDGE AVE TOWN OF MT ROYAL QUE	B SC 3 RE 8 3719
GOLDSCHLEGGER STEPHEN S 768 UPPER BELMONT AVE MONTREAL QUE	B C L 1 HU 1 4839	GOOCH JOHN GREGORY 336 LETHBRIDGE AVE TOWN OF MT ROYAL QUE	B ENG 2 RE 8 3719
GOLDSMITH HARRY L 4516 DECARIE BLVD APT 12 MONTREAL QUE	PH D 3 HU 4 3721	GOOD PAULA JEAN ROYAL VICTORIA COLLEGE PIGEON HILL LILLEY BOTTOM NR LUTON BEDS ENGLAND	B SC 4 VI 2 0586
GOLDSTEIN JONAH MAX 1588 BERNARD AVE W OUTREMONT QUE	B A 2 CR 9 6601	GOODALE GLEN ALFRED RANG DES TRENTES R R 1 ST HILAIRE STM QUE	B SC 2
GOLDSTEIN MARC BEREL 5852 SOMERLED AVE MONTREAL 29 QUE	M SC 1 HU 6 0587		
GOLDSTEIN MARTIN A 488 BLOOMFIELD AVE MONTREAL QUE	B SC 8 CR 7 7038		
GOLDSTEIN MICHAEL ALLAN 707 VICTORIA AVE WESTMOUNT QUE	B A 1 HU 6 5877		

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GOODE MARGARET DORIS 178 COTE ST ANTOINE RD MONTREAL 6 QUE	3 TCHRS WE 7 1596	GORING NEIL L 2047 MCOWILL COLLEGE AVE 308 MURRAY ST GEORGETOWN BR GUIANA	D D S 2 VI 9 1714
GOODFELLOW MARJORIE E 3430 DECARIE BLVD MTL R R 3 SHERBROOKE QUE	B L S 1	GORMAN DAVID PHILIP 2860 DARLINGTON PL MTL FT COVINGTON NEW JERSEY USA	MD CM 3 RE 9 2069
GOODFELLOW ROBIN L 134 CORNWALL AVE TOWN OF MT ROYAL QUE	B SC P OT RE 8 2239	GORMAN MARJORIE MAURE 20358 LAKESHORE RD BAIE D URFEE QUE	H S D DIP
GOODLAND JAMES ROBERT A 3503 PARK AVE MTL MET ROSE HOF RUMVELDT E B BRITISH GUIANA	B SC AV 8 7991	GOELING JOSEPH F 2600 LINTON AVE MTL SOUTH SALEM NEW YORK N Y USA	D D S 2 RE 9 9678
GOODMAN ETHEL 4483A ESPLANADE AVE APT 4 MONTREAL QUE	2 TCHRS AV 8 8904	GOTTESMAN DANIEL 4350 ST KEVIN AVE APT 11 MONTREAL 26 QUE	B ENG COM 5 RE 1 4303
GOODMAN NED M E 4523 HARVARD AVE MONTREAL QUE	B SC HU 6 0911	GOTTLIEB RHEA 5 LAMARCHE ST STE ANNE DE BELLEVUE QUE	3 TCHRS
GOODMAN STANLEY I 5612 RANDALL AVE COTE ST LUC QUE	PARTIAL HU 6 4011	GOUDIE JOANN PEARL L 640 24TH ST APT 2 PTE AUX TREMBLES QUE	B SC 1 MI 2 2856
GOODMAN STANLEY SAMSON 5826 COLDBROOK AVE MONTREAL QUE	B ENG RE 9 0664	GOUGEON GUY RENE JOSEPH 3601 ROUEN MONTREAL QUE	B ENG EL 3 LA 1 5523
GOODMAN STEPHEN IRWIN 6262 WESTBURY AVE MONTREAL 29 QUE	MD CM RE 7 1521	GOUGEON THORNTON JAMES 3478 MCTAVISH ST MTL 390 LAURA AVE SUDBURY ONT	B SC 2 VI 2 7412
GOODWIN HAZEL LOUISE 3170 ST EUPLICE ST MTL 64 OAK RD NORWOOD MASS USA	MD CM 3	GOUGH SHIRLEY JOYCE 122 DEVONSHIRE RD GREENFIELD PARK QUE	H S D DIP OR 1 6450
GOODZ MURRAY 5985 MACDONALD AVE MTL STE SOPHIE CO TERRESOINNE QUE	B ENG EL RE 7 8808	GOULD AVRUM 4524 KINGSTON AVE MONTREAL QUE	PARTIAL
GOFFOLD VON LOESDORF G B 5850 WAYERLEY ST MONTREAL 14 QUE	B ENG CR 1 8762	GOULD BERTIE 5836 DECELLES PL APT 9 MONTREAL QUE	B ENG MCH 8 RE 3 9165
GORDEN DERRICK DESMOND 533 PRINCE ARTHUR ST W HIGHGATE P O BOX 21 JAMAICA W I	B ENG CIV AV 8 5840	GOULD JUDY Q 4524 KINGSTON AVE MONTREAL QUE	B A 2 HU 1 2325
GORDON ARNOLD 3841 MACKENZIE ST MONTREAL 26 QUE	B SC RE 9 4379	GOULD LYON MARK 516 ARGYLE AVE WESTMOUNT QUE	B A 3 WE 3 6007
GORDON DOROTHY 260 SIMCOE AVE TOWN OF MT ROYAL QUE	B A 1	GOULD PAMELA MARY 5129 N D G AVE MONTREAL 28 QUE	B SC 1 HU 6 5981
GORDON ELIZABETH ANNE 518 ROCKLAND RD TOWN OF MT ROYAL QUE	B A 2 RE 8 4551	GOULD RUFUS WILLIAM 3510 MOUNTAIN ST APT 72 MONTREAL QUE	PARTIAL VI 2 4386
GORDON MARK B 4308 WESTERN AVE APT 711 WESTMOUNT QUE	B A 2 WE 2 3502	GOVIER WILLIAM CHARLES 3504 PARK AVE APT 1 MTL 47 COBB RD MOUNTAIN LAKES NEW JERSEY USA	MD CM 3 VI 2 2694
GORDON NANCY J STEWART HALL 917 AMPERE ST ARVIDA QUE	3 TCHRS 1	GOW ROLAND 2079 KIMBERLY ST MTL 739 MAIN ST LACHUTE QUE	B SC 1 VI 6 6485
GORDON PATRICIA ANNE MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	B ED 1	GOWING CAROL A E 408 GREENOCK AVE TOWN OF MT ROYAL QUE	P E DIP 3 RE 8 4921
GORDON SYBIL MERTH 35 CHRISTIE ST STE ANNE DE BELLEVUE QUE 18 MAPLETOFT AVE KINGSTON 2 JAMAICA W I	NDICRAFTS 1	GRADINGER HARVEY 5280 PONSARD AVE MONTREAL QUE	B SC 3 HU 8 2085
GORE JAMES DEWHURST 18 GLENDALE AVE BEACONSFIELD QUE	H S D DIP OX 5 8920	GRADY RICHARD K 3550 LINTON AVE MTL 53 LARCHMONT RD SALEM MASS USA	D D S 3
GORING EILEEN PEARL 23 THORNCREST DORVAL QUE	3 TCHRS 1 ME 1 6331	GRAHAM DAWN MARGARET MACDONALD COLLEGE ATHELSTAN QUE	3 TCHRS

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GRAHAM HAROLD DOUGLAS 1301 CALEDONIA RD TOWN OF MT ROYAL QUE	B SC 1 RE 8 7236	GRAVELLE LUKE M 475 PINE AVE W MTL 136 MAPLE NORTH TIMMINS ONT	B ED PED 4 VI 4 4270
GRAHAM HILDA CHRISTINE 3528 SHUTER ST APT 3 MONTREAL QUE	M A 1 AV 8 3063	GRAVENOR COLIN ALEXANDER 181 DUFFERIN RD MONTREAL QUE	B A 1 MU 1 4444
GRAHAM JOHN M BRITTAIN HALL 1301 CALEDONIA RD MONTREAL QUE	B SC AGR 4	GRAVING NICOLA ROSARIO 8905 ST DENIS MONTREAL QUE	B ENG CH 3 DU 8 3464
GRAHAM JOHN WALLACE 3500 RIDGEWOOD AVE 25 WINDWOOD RD BERNARDSVILLE NEW JERSEY USA	MD CM 4 RE 3 8863	GRAY KAREN NORMA 5625 WESTLUKE COTE ST LUC QUE	B A 1 MU 9 6219
GRAHAM MARGARET ANNE ROYAL VICTORIA COLLEGE 269 GLASGOW ST KITCHENER ONT	B COM 4 VI 2 0477	GRAY LAURA ELIZABETH 1185 ESSEX AVE MONTREAL QUE	GRAD DIP 1 WE 7 8511
GRAHAM MARK 339 OLIVIER AVE WESTMOUNT QUE	B SC 2 WE 3 4840	GRAY LESLEY R ROYAL VICTORIA COLLEGE 206 ST CHARLES RD SEACONSFIELD W QUE	B SC 3 VI 2 0334
GRAHAM VERDA L 4472 GIRONVARD AVE MTL 120 ROBEDALE VALLEY RD APT 801 TORONTO 5 ONT	B SC N 2 MU 8 3145	GRAY MARILYN L STEWART HALL 71 GLENRIDGE AVE ST CATHARINES ONT	B SC H EC 3
GRAIF LINDA 5488 AVONMORE AVE MONTREAL QUE	B A 4 MU 6 8100	GRAY NORMAN C DOUGLAS HALL 928 EAST LEHMAN ST LEBANON PA USA	MD CM 2
GRANDQUILLOT ROGER G 72 UPPER EDISON ST LAMBERT QUE	B ENG FWR 5 OR 1 2529	GRAY THOMAS HUGH 67 SIMCOE AVE TOWN OF MT ROYAL QUE	B ENG CH 5 RE 8 8122
GRANICH ICA 1320 BERNARD AVE W APT 5 MONTREAL QUE	B COM 2 CR 2 5619	GRAY DONALD DONALD A 128 ARLINGTON AVE WESTMOUNT QUE	B COM 4 WE 7 1439
GRANT DONALD L APT B 7 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	B SC AGR 4	GRAY DONALD GEORGE 128 ARLINGTON AVE WESTMOUNT QUE	B COM 1 WE 7 1439
GRANT GEORGE ROBERT 3941A CARLTON AVE MONTREAL QUE	PH D 4 RE 3 2598	GRECIANO ANTHONY D 3051 CEDAR AVE MONTREAL QUE	B ENG FWR 5 WE 2 8050
GRANT HUGH DAVID 466 MT STEPHEN AVE WESTMOUNT QUE	B A 1 WE 7 2206	GREEN ABRAHAM 757 BLOOMFIELD AVE APT 3 OUTREMONT QUE	B SC 1 CR 6 8410
GRANT JACQUELINE ANN LAIRD HALL 105 46TH AVE LACHINE QUE	B SC H EC 1	GREEN DOROTHY 4535 GRAND BLVD APT 4 CANIFIELD DOMINICA THE WEST INDIES	M B W 1 MU 4 6397
GRANT JAMES A 241 FIRST ST ST LAMBERT QUE	B C L 2 OR 1 7388	GREEN FLOYD EDWIN 3473 UNIVERSITY ST MTL LYN ONT	B D 2 VI 9 1791
GRANT JANET PAULETTE 3439 SHUTER ST APT 2 MTL WHITE CAPS HARRINGTON SOUND BERMUDA	MD CM 1 VI 4 5408	GREEN LEONA LOUISA 4950 CUMBERLAND AVE MONTREAL 29 QUE	B SC P OT 3 MU 8 3398
GRANT JOHN MACGREGOR DOUGLAS HALL 407 MINTO PL OTTAWA 2 ONT	B SC 3	GREEN LORNA ROYAL VICTORIA COLLEGE 1301 LEMOIRE ST CILLARY 6 QUESEC CITY QUE	B SC 4 VI 2 0180
GRANT JOY SYLVIA MACDONALD COLLEGE ROY TERRACE MARABELLA TRINIDAD W I	B SC H EC 1	GREEN MARY K S ROYAL VICTORIA COLLEGE 118 MOHAWK TRAIL PINES LAKE WAYNE N J USA	B A 2 VI 2 0265
GRANT ROBERT MURRAY R R 1 STE MARIE RD STE ANNE DE BELLEVUE QUE	B SC AGR 1	GREEN MATTHEW RONALD 102 ST FERDINAND BOX 239 CHATEAUBUQUAY QUE	B ENG 2 OX 2 2184
GRATTON PIERRE JEAN M 82 MAURICE ST MULL QUE	B ENG CIV 5	GREEN MICHAEL JOHN 640 DAWSON AVE TOWN OF MT ROYAL QUE	B ENG EL 3 RE 3 5707
GRAUL DOROTHY JEAN 474 STRATHCONA AVE WESTMOUNT QUE	B TCHRS 1	GREEN MIRIAM MOLLY 2480 PATON AVE VILLE ST LAURENT QUE	M B W 2 RI 8 8588
GRAVELLE ANDRE GEORGE 4844A DELAROCHE ST MONTREAL 34 QUE	B ENG CIV 5	GREEN PETER 90 COTE ST CATHERINE RD MONTREAL QUE	B SC 1 CR 4 1982

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NAME ADDRESS	COURSE & YEAR TEL. NO.	NAME ADDRESS	COURSE & YEAR TEL. NO.
GREEN PETER WILLIAM 3558 LORNE AVE APT 4 MTL KIRKLAND LAKE ONT	M SC 2	GREIG ANNE HELEN ROYAL VICTORIA COLLEGE WENLOCK GROVE BOULDERWOOD HALIFAX CO N S	B A 1 VI 2 0829
GREEN SHIRLEY ROSLYN 13 ST GEORGE ST STE ANNE DE BELLEVUE QUE 6100 WILBERTON AVE APT 9 MONTREAL QUE	3 TCHRS	GRENIER RICHARD 2469 JEAN TALON EAST APT 9 MONTREAL QUE	M SC 2
GREEN WENDY CAROLYN STEWART HALL 435 WALNUT AVE ST LAMBERT QUE	3 TCHRS	GRENKIE LYNDIA B A MCLENNAN HALL BOX 132 ROBETOWN SASK	B SC POT 2 VI 2 0044
GREENBAUM MORRIS 5796 TRANS ISLAND AVE MONTREAL QUE	B ARCH RE 8 5591	GREY PETER 5178 SHERBROOKE ST W APT 16 MONTREAL QUE	B SC 3 HU 1 5495
GREENBERG BRYNA 6840 WESTBURY AVE MONTREAL QUE	B A RE 7 8766	GREYSORN ANN ROYAL VICTORIA COLLEGE 214 WILLIAM ST COWANSVILLE QUE	B SC 2 VI 9 0120
GREENBERG CHARLES HOWARD 5882 HUDSON RD MONTREAL QUE	B SC RE 8 5850	GRICMAN FRED 397 ST JOSEPH BLVD W APT 1 MONTREAL QUE	H S D DIP CR 4 2794
GREENBERG HARRIET 8445 MANTHA ST VILLE ST LAURENT QUE	B SC POT 3 RI 4 6037	GRIEF HOWARD 854 WISEMAN AVE OUTREMONY QUE	B A 3 CR 1 5524
GREENBERG JANICE DOROTHY 19 ABERDEEN AVE WESTMOUNT QUE	B A 3 WE 3 4867	GRIERSON BRUCE JOHN 3851 UNIVERSITY ST MONTREAL QUE	B ENG MET 4
GREENBERG SYDNEY 2535 GOYER ST MONTREAL QUE	B ENG CH RE 7 3371	GRIFFITHS BERTRAM WALTER 4970 QUEEN MARY RD APT 12A MONTREAL QUE	M SC 1 RE 9 9286
GREENBURY ROBERT ALLAN 118 WICKSTEED AVE MONTREAL 16 QUE	B ENG CIV 4 RE 7 3063	GRIFFITHS DOROTHY B 495 PRINCE ARTHUR ST W APT 27 MONTREAL QUE	B A 4 VI 5 7393
GREENHOUGH ARTHUR ABRAHAM 3508 UNIVERSITY ST MTL ARUNDEL QUE	B D 3	GRIMSHAW DALE A 88 ALLARD AVE DORVAL QUE	B ENG 2 ME 1 3058
GREENLAW ROBERT KING 54 COURCELETTE AVE MTL ST ANDREWS N B	M SC 1 CR 2 5092	GRIMSON COLIN DONALD 4043 MARLOWE AVE MONTREAL QUE	M A 1 HU 4 5605
GREENLEE PATRICIA F 1009 SHERBROOKE ST W 14320 98A AVE EDMONTON ALTA	B SC POT 2 VI 2 7444	GRIDALE JOHN MCARTHUR BOX 333 HUDSON QUE	M A 3
GREENSTEIN CLARA 5460 TRANS ISLAND AVE MONTREAL QUE	B SC 1 HU 6 1515	GROBSTEIN LINDA SUSAN 700 VICTORIA AVE MONTREAL QUE	B A 1 HU 8 8473
GREENWALD HERBERT 4955 BOURRET AVE APT 21 MONTREAL QUE	D D 2 4 RE 7 5508	GREENBERG TIU MAI 840 WESTMINSTER AVE N MONTREAL WEST QUE	PARTIAL HU 8 7410
GREENWAY HAROLD EDMUND WILSON HALL 2 NEWCOMBE RD HANDSWORTH BIRMINGHAM 21 ENGLAND	B SC 2 VI 4 0624	GROFF MARIAN EDITH C ROYAL VICTORIA COLLEGE 2111 NICOLAS PERROT THREE RIVERS QUE	B SC POT 1 VI 2 0113
GREENWOOD FRANK M E 3767 THE BOULEVARD WESTMOUNT QUE	B CL 2 HU 1 2450	GROGAN RICHARD BRUCE 5619 QUEEN MARY RD HAMPSHIRE QUE	B ENG MET 1 HU 4 2055
GREER THOMAS 43 QUEEN S RD VALOIS QUE	B SC 2 OX 7 3447	GROSE JOHN HOWARD 3441 PEEL ST MTL 3 GARDEN TERRACE 2ND FL HONG KONG	B SC 2 VI 4 0341
GREFF JULIUS S P O BOX 133 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	B SC AGR 3	GROSE JOHN O BRITAIN HALL 75 OLD CHURCH LANE STANMORE MIDDLESEX ENGLAND	B SC AGR 2
GREGORY ALBERT P 2611 DESJARDIN ST APT 4 MONTREAL QUE	B ENG 2 CL 9 1845	GROSS GERALD GENE 11 WINDSOR AVE W MONTREAL QUE	H S D DIP HU 9 4959
GREGORY JOAN VICTORIA MACDONALD COLLEGE 454 FAIRFIELD AVE GREENFIELD PARK QUE	2 TCHRS 1	GROSS MANNY MARVIN 5285 PONSARD AVE MONTREAL 28 QUE	B ENG 1
GREIG ALAN WILLIAM 4814 VICTORIA AVE MONTREAL 29 QUE	B ENG MCH 3 HU 9 4480	GROSS MARTIN 4700 PLAMONDON AVE APT 10 MONTREAL QUE	B CL 3 RE 3 6612

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NAME ADDRESS	COURSE & YEAR TEL. NO.	NAME ADDRESS	COURSE & YEAR TEL. NO.
GROSS PHILIP NORCROSS 27 DECASSON RD WESTMOUNT QUE	B ENG 1 WE 7 2021	GUNTHER GEORG 3550 LINTON AVE MONTREAL QUE	B A 1 RE 3 9496
GROSSEKLAUS MICHAEL 216 DRESDEN AVE MONTREAL 16 QUE	B ENG 2 RE 7 8826	GUNTHER MARJORIE M LAIRD HALL 6 LEONA ST CORNWALL ONT	B SC H EC 2
GROSSEMAN LOIS ELAINE 4672 KENT AVE MONTREAL QUE	J TCHR RE 7 7590	GUPTA VIJAI PRAKASH BOLDOPUR VARANAS 6 U P INDIA	M ENG 1
GROUNDWATER ALEXANDER J B 210 SECOND ST ST LAMBERT QUE	B SC 1 OR 1 7502	GURALNICK MELVIN STEVEN 767 DAVAAR AVE OUTREMONT QUE	B A 3 CR 9 4921
GROUT ROBERT CAMERON L 68 ARLINGTON AVE WESTMOUNT QUE	B SC 3 WE 7 3726	GURALNICK PERRY 767 DAVAAR AVE OUTREMONT QUE	B A 4 CR 9 4921
GRUNBLATT ABRAHAM JOSEPH 3734 KENT AVE MONTREAL QUE	M A 2 RE 8 0848	GURBERG DAVID WILLIAM 550 DORAIS VILLE ST LAURENT QUE	B A 3 RI 4 6994
GRUNER NICHOLAS N 911 CALEDONIA RD MONTREAL 16 QUE	B ENG 1 RE 8 5994	GURD DAVID P 2161 GRAHAM BLVD MONTREAL 16 QUE	B SC 3 RE 8 8628
GUERRERI GIUSEPPE 900 SHERBROOKE ST W 1 VIA ROADLFO LANCIANI ROME ITALY	L L M 1 VI 5 1979	GUTELIUS JOHN R 167 DUMBARTON RD BALTIMORE 12 USA	MED DIPL 4
GUERTIN JACQUES D P 76 2ND AVE ROXBORO QUE	B SC 4 MU 4 2216	GUTHRIE ARTHUR DEREK 8 MARTIN AVE DORVAL QUE	B CL 3 ME 1 1510
GUERTIN PIERRE I 548 SHERBROOKE ST W MTL 1 FRONT ST MULL QUE	B ARCH 3 VI 4 0551	GUTHRIE PETER A 633 ROSLYN AVE WESTMOUNT QUE	B SC 2 HU 4 6603
GUHA AMARES CHANDRA 3775 UNIVERSITY ST MTL 47A LAKE AVE CALCUTTA 26 WEST BENGAL INDIA	PH D 3	GUTMANN FRANCIS 3457 SHUTER ST MTL 405 W 29TH AVE VANCOUVER B C	PH D 2 AV 8 9732
GUILBEAULT JEAN L J 28 ROSKILDE AVE OUTREMONT 8 QUE	B CL 1 CR 2 8486	GUTTMAN ALLAN 6002 MOUNTAIN SIGHTS AVE MONTREAL QUE	B ENG 2 RE 7 1509
GUILD BARBARA LAWRENCE 22 CEDAR AVE PTE CLAIRE QUE	B ED 2 OX 5 3054	GUTTMAN FRED 651 LANSDOWNE AVE MONTREAL QUE	M B D DIP HU 1 9390
GUILLEMETTE NORMAND 1441 DRUMMOND ST MTL 2033 BOISVERT ST SHAWINIGAN QUE	B ENG CH 4 VI 9 4171	GUTTMAN MARTIN D BRITTAIN HALL 2492 BEDFORD RD MONTREAL QUE	B SC AGR 2
GUIMONT MAURICE SYLVIO J 1615 LINCOLN AVE APT 10 P O BOX 280 GRAND FALLS N B	B ENG CH 4	GUTTMAN SUE CAROL 6915 LEMIEUX MONTREAL QUE	B A 2 RE 7 2103
GUINNESS FIONA EVELYN ROYAL VICTORIA COLLEGE BIDDESDEN HOUSE ANDOVER HANTS ENGLAND	B SC E VI 2 0571	GUZMAN DANILO ANTONIO 3260 RIDGEWOOD AVE APT 14 MTL CASTILLO APT 43 SAN FRANCISCO DE MACORIS DOMINICAN REPUBLIC	MD CM 4 RE 8 7344
GUITTON DANIEL EDWARD 8983 BASILE ROUTHIER ST MONTREAL QUE	B ENG MCH 8 DU 8 5142	GYAPAY ESTHER 3615 LORNE CRES APT 2 4 ST JACQUES ST STE ANNE DE BELLEVUE QUE	B A 3 VI 5 8606
GULDEN SIMON 5181 BOURRET AVE MONTREAL 29 QUE	B CL 1 RE 7 8385	GYAW MAUNG OHN 3631 LORNE CRES APT 7 DAW NYUN NYUN 224 SO AUNG KYAW ST RANGOON BURMA	PH D 4 VI 9 6282
GULLAPALLI SITARAMAIAH 3520 LORNE AVE MONTREAL QUE	PH D 3 VI 9 6221	GYENES LADISLAS 4080 COTE ST CATHERINE APT 8 MONTREAL QUE	PH D 4 RE 3 6269
GUNJIAN NEVART NAIRI 7945 DE L EPEE AVE MONTREAL QUE	B A 2 CR 3 3948	GYUTKY MARGARET 1431 MACKAY ST MONTREAL QUE	B L S 1 VI 9 6849
GUNN CHARLES ALEXANDER 124 ST JAMES ST APT 202 LONDON ONT	B ENG 1		
GUNN JOHN D 4630 KINGSTON AVE MONTREAL QUE	B SC 2 HU 4 2309		

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H		HALL SUSAN EDITH 3541 UNIVERSITY ST MTL 586 BEACH DR VICTORIA B C	GRAD DIP 1 VI 9 1329
HAAS GUNDA ELIZABETH 4647 KENT AVE MONTREAL QUE	PARTIAL RE 3 9133	HALL THOMAS C 4453 WESTERN AVE MTL 1431 PENN DR TRAVERSE CITY MICH USA	MD CM 4
HABER HARVEY 5271 BYRON AVE MONTREAL QUE	B SC HU 6 4342	HALL VINCENT L MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	2 TCHRS
HACK ELIZABETH LAIRD HALL 8131 BIRNAM ST MONTREAL QUE	3 TCHRS	HALLAL ALFRED 4260 BARCLAY ST APT 2 MONTREAL QUE	B ENG 1 RE 9 4413
HACKETT BARBARA JEAN ROYAL VICTORIA COLLEGE 319 39TH AVE S W CALGARY ALTA	B SC 4 VI 2 0327	HALLAM KATHERINE LYNNE 1535 ST CLARE RD TOWN OF MT ROYAL QUE	B A 1 RE 3 8064
HADLEY BEVERLEY A MACDONALD COLLEGE P O BOX 548 BROWNSBURG QUE	B SC M EC 2	HALMAY ANDREW GEORGE 464 WOOD AVE WESTMOUNT QUE	B ENG 3 WE 7 2629
HADLEY GLEN KENNETH BRITAIN HALL HEMMINGFORD QUE	B SC AGR 1	HALMAY PETER 464 WOOD AVE WESTMOUNT QUE	B ENG CIV 3 WE 7 2629
HAHAMOVITCH DONALD EDWARD 6955 FIELDING AVE APT 102 MONTREAL QUE	B C L 3 HU 1 0916	HALPERIN MITCHELL L 4945 VICTORIA AVE MONTREAL QUE	MD CM 2 HU 4 1900
HAISLEY RAYMOND B 3531 LORNE AVE MONTREAL QUE	B A 3 VI 9 0904	HALPERN DAVID 74 MCNIDER AVE MONTREAL B QUE	B ENG 1 CR 9 6788
HAJNBEK FRANJO 4565 QUEEN MARY RD MTL 42 GORJANSKA ZAGREB YUGOSLAVIA	MED DIPL 4	HALPERN GERALD 74 MCNIDER AVE MONTREAL B QUE	B A 4 CR 9 6788
HAKKENBERG PETER WILSON HALL P O BOX 58 TEHRAN IRAN	B ENG 1	HALPERT LESLIE SYDNEY 5215 BESSBOROUGH AVE MONTREAL 29 QUE	B COM 3 HU 4 8548
HAKSTIAN ROBERT WILFRED 443 RUE ST JACQUES LONGUEUIL QUE 2589 MCBAIN AVE VANCOUVER B C	M SC 1	HALTRECHT DAVID GORDON 5465 VICTORIA AVE MTL 26 CHAPLEAU ST OTTAWA ONT	B ENG COM 1 RE 7 9852
HALE VERA ANNE 4080 HIGHLAND AVE MONTREAL QUE	B SC 2 WE 2 5983	HALVORSON HARVEST BOX 42 MACDONALD COLLEGE 1167 MANITOBA AVE WINNIPEG 4 MAN	PH D 1
HALEY PETER MILAN 4940 COTE DES NEIGES RD MONTREAL QUE	B ARCH 2 RE 8 4481	HAM ARTHUR KEITH 3 DE CASSON RD MONTREAL QUE	B C L 4 WE 3 7950
HALICKMAN EVELYN MARILYN 41 LAVIOLETTE AVE OUTREMONT QUE	B A 1 CR 7 1949	HAM TREVOR J 3605 UNIVERSITY ST MTL BOX 402 NAPANEE ONT	MD CM 1 AV 8 0643
HALL ALICE LOUISE CAMERON 1389 REDPATH CRES MTL 292 FRANK ST OTTAWA ONT	B N 2 VI 4 5426	HAMBURG HAROLD DAVID 640 WISEMAN AVE MTL 15 PADDOCK ST SAINT JOHN NEW BRUNSWICK	B SC 1 CR 9 2793
HALL CHARLES DENIS 3508 UNIVERSITY ST MTL 83 ST ANDREWS RD BAIE D'URFEE QUE	B ENG PHY 5 VI 5 4873	HAMEL LAURENT 526 SHERBROOKE ST E MONTREAL QUE	B ENG 3 AV 8 3008
HALL CONRAD ST GEORGE 3566 HUTCHISON ST MTL 3 MARGARET HALL LANE MONTEGO BAY JAMAICA W I	B SC 2	HAMID MAHMUD A K 3451 SHUTER ST APT 1 MONTREAL QUE	B ENG COM 5
HALL KAREN AGNETE 46 SUMMIT CIRCLE MONTREAL 6 QUE	B SC 3 WE 5 2631	HAMILTON ANDY GERALD 451 STRATHCONA AVE WESTMOUNT QUE	B ENG 2 WE 2 1308
HALL MARY ELIZABETH ROYAL VICTORIA COLLEGE 83 ST ANDREWS RD BAIE D'URFEE QUE	B ED 4 VI 2 0526	HAMILTON ARTHUR 1585 MCGREGOR AVE APT 33 BANYMENA N IRELAND	MED DIPL 3
HALL MARY MARGARET 5658 COTE ST ANTOINE RD MONTREAL QUE	M L S 1 HU 1 3263	HAMILTON AUDREY LOUISA 590 LAKESHORE RD BEAUREPAIRE QUE	B SC 2 OX 5 2314
		HAMILTON BARBARA JOAN ROYAL VICTORIA COLLEGE STE ANN S HOSPITAL STE ANNE DE BELLEVUE QUE	B A 2 VI 2 0180
		HAMILTON BRUCE C 3410 KENSINGTON AVE APT 7 MONTREAL QUE	B C L 3 HU 8 4368

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HAMILTON CLAIRE LAWLESS 175 47TH AVE LACHINE QUE	B SC 1 ME 7 7313	HANDELMAN SAUL 6463 MC LYNN AVE MONTREAL QUE	B CL 2 RE 1 1216
HAMILTON DAVID CHARLES 481 PRINCE ARTHUR ST W 7 NAMAO DR MIDDLETON PARK TRENTON ONT	B ENG 2 AV 8 7773	HANDIAK NICHOLAS 1319 CONWAY ST MONTREAL 22 QUE	B ENG CH 5
HAMILTON DIANE MARGARET STEWART HALL 5130 WESTMORE AVE MONTREAL QUE	2 TCHRS 2	HANDLER NORENE 4975 BOURRET AVE APT 19 MONTREAL QUE	B SC N 1 RE 3 0859
HAMILTON HERBERT A N 3433 HUTCHISON ST MONTREAL 18 QUE	B A 3 AV 8 4790	HANKIN NANCY CAROLYN ROYAL VICTORIA COLLEGE 5657 QUEEN MARY RD HAMPSTEAD QUE	B ARCH 2
HAMILTON KENNETH GEORGE 3440 RIDGEWOOD AVE APT 48 MTL 79 HIGHLAND AVE SHORT HILLS N J USA	MD CM 4 RE 1 2022	HANNA SUEAN FRANCES MACDONALD COLLEGE 454 6TH AVE GRAND MERE QUE	2 TCHRS 1
HAMILTON PAUL MARSHALL 521 PRINCE ARTHUR ST W APT 21 MTL LILACS GOATACRE WILTS ENGLAND	M SC 1 VI 9 0170	HANNAH KATHERINE ANN 1433 BISHOP ST APT 8 MTL 9 NESSBITT DR TORONTO 5 ONT	GRAD DIP 1 VI 5 0533
HAMILTON ROBERT LORNE 1592 PINE AVE W APT 55 AYERS CLIFF QUE	D D S 3 WE 2 1864	HANSEN CARL ANTHONY 3621 LORNE CRES MTL WESTHAMPTON BEACH NEW YORK USA	MD CM 3 VI 4 6086
HAMILTON ROBERT SWANN 3440 SHUTER APT 6 MTL 7 CHICHESTER PARK N BELFAST N IRELAND	M SC 2 AV 8 6609	HANSEN HAROLD C J MACDONALD COLLEGE 615 47TH AVE LACHINE QUE	B ED P ED 2
HAMMOCK JOHN DAVID 5380 O BRYAN AVE MONTREAL QUE	B SC 1 HU 9 2159	HANSON CAROL KING 1009 SHERBROOKE ST W MTL P O BOX 276 WATERLOO QUE	B SC P OT 2 VI 2 7444
HAMMOND GRAEME 3660 DUROCHER ST APT 1 36 CRANE RD SCARSDALE N Y USA	MD CM 2 AV 8 2626	HANBOLD JOHN ALEXANDER 6001 COTE ST LUC RD APT 404 MONTREAL 29 QUE	PH D 4 HU 1 2140
HAMMOND SUZANNE 3455 UPPER STANLEY ST APT 301 MTL 333 NO STEELE RD W HARTFORD 17 CONN USA	M SC 1 VI 5 4384	HARARI CLAUDE 5005 COTE ST CATHERINE MONTREAL QUE	B SC 1 RE 1 0209
HAMPER ADOLPHE 2250 SOUVENIR ST MONTREAL 25 QUE	M A 1	HARASIMOWICZ PAUL PETER 31 MAQUIRE ST MTL 293 ELM ST GARDNER MASS USA	D D S 3 CR 4 1470
HAMPEON MICHAEL C BOX 88 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	M SC 2	HARBERT JOHN EDWARD 451 STRATHCONA AVE WSMT 1355 RUSSELL ST SHERBROOKE QUE	B ENG MCH 5 WE 2 1308
HAMPTON RICHARD JOHN 70 45TH AVE LACHINE QUE	B ENG CH 5 ME 7 3679	HARBOUR LLOYD C 456 PINE AVE MTL 1229 BELAIR AVE ACTON VALE QUE	B ENG 1
HAMWEE HAROLD JOSHUA BRITTAIN HALL 6752 WESTBURY AVE MONTREAL QUE	2 TCHRS	HARDEN CATHERINE ANNE MACDONALD COLLEGE 4053 OXFORD AVE MONTREAL QUE	2 TCHRS 1
HANAWAY JOSEPH 418 PINE AVE APT 7 MTL 47 KNOLLWOOD RD SHORT HILLS N J USA	MD CM 4 VI 9 4664	HARDING ALWIN WILBERFORCE 3466 SHUTER ST APT 108 ORANGE HILL ST JAMES BARBADOS W I	B A 4 VI 4 3866
HANCOCK RICHARD FROUDE 2055 LINCOLN AVE APT 14 BOLHAM HILL CLAYHIDON CULLUMPTON DEVON ENGLAND	PH D 1 WE 2 6518	HARDING DOROTHY J MACDONALD COLLEGE 405 PINE AVE ST LAMBERT QUE	B ED 1
HANDAL EDUARDO DOUGLAS HALL CALLEDEL COMERCIO TEGUCIGALPA HONDURAS	B SC 1	HARDY JOHN CHRISTOPHER 2075 ATWATER AVE MONTREAL QUE	B SC 3 WE 2 8609
HANDEL BRENDA 5021 GLENCAIRN RD MONTREAL 28 QUE	B A 1 HU 1 1028	HARDY JOSEPH F X R 5669 16TH AVE MTL 36 DESCHAMBAUQT CO PORTENEUF QUE	B ENG 1 RA 8 2060
HANDELMAN DONALD 3641 OXENDEN AVE MTL STE AGATHE CHALET STE AGATHE DES MONTS QUE	B A 4 VI 5 7893	HARDY LAURA RUTH 1374 CARDINAL ST VILLE ST LAURENT QUE	B SC 2 RI 4 2145
		HARDY PETER THOMAS 4120 COTE ST CATHERINE APT 19 MONTREAL QUE	B ENG 1 RE 8 9563

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HAREWOOD MILARY ETHEL MACDONALD COLLEGE 40 MON REPOS ST SAN FERNANDO TRINIDAD W I	B SC H EC 1	HARRIS FRANK HORST 5503 SMART AVE COTE ST LUC QUE	B ENG PWR 5 HU 9 1994
HARGREAVES DAVID 1563 MCGREGOR ST MTL COLLEGE RD GOXHILL LINGS ENGLAND	B A 3 WE 7 5187	HARRIS GEORGE ASHTON 3522 STE FAMILLE ST APT 20 MTL 1417 GRAHAM BLVD APT 12 TOWN OF MT ROYAL QUE	B A 3 AV 8 0628
HARGROVE CLIFFORD K 3547 UNIVERSITY ST APT 21 MONTREAL QUE	PH D 4 AV 8 7419	HARRIS GORDON LEONARD 4170 GIRAUD AVE MONTREAL QUE	B SC 4 HU 1 1698
HARINGTON RICHARD 2376 HAMPTON ST MTL 636 24TH AVE N W CALGARY ALTA	M SC 2	HARRIS MELAINE BEVERLY MACDONALD COLLEGE 4200 BOUCHETTE APT 24 MONTREAL QUE	3 TCHRS
HARKER WILLIAM CLINTON 316 CLEMENT AVE DORVAL QUE	B ENG EL 3 ME 1 8648	HARRIS HUGH G 3508 DUROCHER ST MTL 61 ORRIN AVE OTTAWA ONT	B ENG CIV 3 VI 9 4352
HARKNESS JOHN PATRICK 1838 SHERBROOKE ST LACHINE QUE	D D S 4 ME 7 8727	HARRIS IAN EDSSEL 631 MURRAY HILL AVE WESTMOUNT QUE	B A 2 HU 4 3357
HARLAND ROSS CAMERON BRITTAIN HALL P O BOX 183 HEDFORD QUE	B SC AGR 3	HARRIS JOANNE PATRICIA 6001 COTE ST LUC RD MONTREAL 29 QUE	B A 1 HU 4 4148
HARLE MARGARET JANE 3480 ONTARIO AVE MTL 1434 ROYAL ST MONTREAL QUE	B SC P OT 2 VI 2 0044	HARRIS JOHN D BRITTAIN HALL 6056 SOMERLED AVE MONTREAL QUE	B ED 1
HARMAN WILLIAM RONALD 4921 SHERBROOKE ST W APT 2 MTL 120 MAXWELL AVE GENEVA N Y USA	B SC 1 HU 1 7078	HARRIS MARGARET E 21 LEGAULT ST STE ANNE DE BELLEVUE QUE 4590 GRAND BLVD MONTREAL 28 QUE	2 TCHRS
HARMON NEIL LESLIE DOUGLAS HALL 30 HENDRIE AVE RIVERSIDE CONN USA	B SC 1	HARRISON BASARINDE A 3543 HUTCHISON ST APT 3 39 JONES ST EBUTE METTA NIGERIA	B ENG 2
HARNEY PATRICIA MARIE BOX 191 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	PH D 2	HARRISON JUDITH ANN ROYAL VICTORIA COLLEGE COLLEGE HILL ROTHESAY N S	B SC 4 VI 2 0598
HARNISH BENNIE D 3495 HUTCHISON ST MTL BOX 925 WHEATLAND WYO USA	D D S 1	HARRISON KARL MITCHELL 5371 RANDALL AVE APT 6 MONTREAL QUE	B SC 4 HU 9 8140
HARPER CAROLYN 4919 LACOMBE AVE MONTREAL QUE	B A 1 RE 8 3827	HARRISON MARGARET E MACDONALD COLLEGE R R 2 FREDERICTON N S	B SC H EC 4
HARPER MARY HELEN 364 METCALFE AVE WESTMOUNT 6 QUE	B SC P OT 2 WE 3 5268	HARRISON MARGARET GAIL MACDONALD COLLEGE 184 WOODROFFE AVE OTTAWA ONT	B SC H EC 1
HARPER THOMAS MICHAEL 364 METCALFE AVE WESTMOUNT 6 QUE	B ENG MCH 4 WE 3 5268	HARROLD ALAN JOHN 7045 FIELDING APT 204 MONTREAL QUE	MD CM 3 HU 9 2059
HARRIES JOHN DAVID 71 BALLANTYNE AVE N MONTREAL WEST QUE	MD CM 1 HU 6 6998	HARROW MARTIN 3875 PLAMONDON APT 11 MONTREAL QUE	M SC 2 RE 7 1815
HARRINGTON ALEXANDER T 388 SHERBROOKE ST E MTL CANTERBURY RD VERMONT VICTORIA AUSTRALIA	B ENG MCH 4 VI 2 7050	HART CHARLES MACKIMMIE 50 FORDEN CRES WESTMOUNT QUE	B ENG 1
HARRINGTON EMILY F 3587 UNIVERSITY ST APT 7 MTL 1432 PORTAL ST OTTAWA ONT	B N 2	HART DIANE C 1700 MCGREGOR ST MONTREAL QUE	B A 1 WE 2 3978
HARRINGTON JOE EDWARD WILSON HALL 1356 GARNET ST REGINA SASK	B ENG 2	HART GEORGE B MACDONALD COLLEGE 16 WEST KINGS HOUSE RD HALF WAY TREE P O JAMAICA T W I	B SC AGR 4
HARRIS DONALD PAUL 3563 UNIVERSITY ST MONTREAL QUE	MED DIPL 1 AV 8 2548	HART SALLY ELIZABETH ROYAL VICTORIA COLLEGE 3628 LORNE CRES APT 1 MONTREAL QUE	B SC 4 VI 9 0120
		HART SUSAN AIRDRIE 3479 STANLEY ST MTL 163 SENNEVILLE RD STE ANNE DE BELLEVUE QUE	B A 2 VI 2 7576

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HARTMAN ABRAHAM AARON 5533 QUEEN MARY RD MONTREAL QUE	MD CM MU 8 5137	HATTON JOHN KELVIN DOUGLAS HALL 45 HICKORY RD PORT WASHINGTON NEW YORK USA	B ENG 1
HARTMAN JAAKKO A 232 ELIZABETH CIRCLE P O BOX 813 ROSEMERE QUE	B ENG 2 NA 5 4159	HAUSNER ROBERT ALLAN 3258 THE BOULEVARD WESTMOUNT QUE	B COM 3 WE 3 6104
HARTMAN TUUNI KAARINA 232 ELIZABETH CIRCLE P O BOX 813 ROSEMERE QUE	B ENG 1 NA 5 4159	HAUSER ROBERT HUNTER 503 AVE DES CEDRES BEAUMHARNOIS QUE	B SC 3
HARTT STANLEY W 6300 WESTBURY AVE MONTREAL 29 QUE	M A 2 RE 3 2465	HAVENS DOUGLAS LORIS DOUGLAS HALL 287 ERIE ST S LEAMINGTON ONT	B SC 3
HARTWICK FREDERICK D A DOUGLAS HALL 216 GAY LUSSEAC ST ARVIDA QUE	B ENG EL 3 VI 4 0977	HAVERSTOCK PATRICIA M MACDONALD COLLEGE BEDFORD AVE ST BRUNO QUE	2 TCHRS
HARVEY ALEXANDER 3524 HUTCHISON ST APT 48 MONTREAL 18 QUE	M A 2 VI 5 4348	HAVIS ISIDORE 2790 DARLINGTON PL APT 11 MONTREAL QUE	B ENG 1 RE 3 6280
HARVEY BARBARA L LAIRD HALL 620 MERTON AVE ST LAMBERT QUE	2 TCHRS 2	HAWALESHKA OSTAP 6010 31ST AVE MONTREAL 36 QUE	B ENG MCH 5 RA 8 7943
HARVEY CLARK CHRISTOPHER 3463 SHUTER ST APT 1 MONTREAL QUE	B ENG EL 4 VI 5 0746	HAWES MARJORIE E 31 PRINCE EDWARD VALOIS QUE	P E DIP 2 OX 7 0178
HARVEY CONSTANCE D 53 BR DORVALEN AVE DORVAL QUE	2 TCHRS 2 ME 1 8928	HAWES STEPHEN KENNETH 8885 89TH AVE MONTREAL 36 QUE	B ENG 1 RA 1 3862
HARVEY DONALD FREDERICK 3400 RIDGEWOOD AVE APT 2 MTL 720 E 27TH AVE SPOKANE WASH USA	MD CM 4 RE 1 2927	HAWKES ZETA G 418 CLAREMONT MTL SUSSEX R R 3 KINGS CO N S	GRAD DIP 1 MU 4 3836
HARVEY FREDERICK M 317 STRATHEARN AVE N MONTREAL WEST QUE	B ENG 1 MU 9 2521	HAWKINS DIANE LOUISE MACDONALD COLLEGE 778 13TH AVE LACHINE QUE	2 TCHRS 1
HARVIE CATHERINE MARY ROYAL VICTORIA COLLEGE 224 JOHN ST THORNHILL ONT	B A 2	HAWKINS HERBERT ROBERT 103 MORRISON AVE TOWN OF MT ROYAL QUE	B COM 4 RE 1 5815
HARVIE RONALD THOMAS 1380 SCARBORO RD MONTREAL 16 QUE	B A 1 RE 8 2187	HAWKINS KATHLEEN 5225 HUTCHISON ST MONTREAL QUE	MD CM 3
HARWOOD BARNES GEOFFREY A 2125 MCKAY ST MONTREAL QUE	B A 3	HAWKINS WILLIAM MAXWELL 5880 COTE ST ANTOINE RD MONTREAL QUE	PH D 4
HARWOOD JONES JOHN A 20 SWALLOW AVE STRATHMORE QUE	B A 2 ME 1 1379	HAY BRUCE G BRITTAIN HALL R R 2 LACHUTE QUE	B SC AGR 2
HASHIMOTO TSUTOMU 4 BURTON AVE WESTMOUNT QUE	M SC 1 MU 8 4042	HAY DONALD ROBERT 3201 FOREST HILL AVE MTL 365 BEDARD BLVD LACHUTE QUE	B ENG MET 4
HASLAM CHRISTOPHER R S 3473 UNIVERSITY ST MTL DOM STEEL & COAL CORP WABANA MINES BELL ISLAND NFLD	B ENG COM 5 VI 9 1791	HAY ROBERT EARL 1441 DRUMMOND ST MTL 124 BEVERLEY ST KINGSTON ONT	PH D 2
HASLETT BENITA JANE 3630 MOUNTAIN ST MONTREAL QUE	B A 4 VI 5 1076	HAY ROGER MACLEAN 103 ANGELL AVE BEACONSFIELD QUE	B ENG EL 3 OX 5 4573
HASLETT RICHARD STUART 3630 MOUNTAIN ST MONTREAL QUE	B COM 1 VI 5 1076	HAYDEN DAVID EDWARD P 47 PERREAULT AVE STE ANNE DE BELLEVUE QUE	MD CM 4
HASLEY MICHAEL A 4632 OXFORD AVE MONTREAL QUE	B A 2 MU 6 0575	HAYDEN SARA ADELAIDE 3438 DRUMMOND ST MTL 2230 WELSTER AVE OTTAWA 1 ONT	L MUS 1 VI 4 0382
HATFIELD ROBERT DOUGLAS 287 WESTGATE ROSEMERE QUE	B ENG MCH 4 NA 5 4286	HAYES FRANCIS JOSEPH 2014 CONNAUGHT AVE MONTREAL 28 QUE	PH D 4
HATT MARK LIVINGSTON 1906 LINCOLN AVE MTL KINGSTON N S	D D S 4 WE 5 6518	HAYES MARILYN SARA 5668 N D G AVE MONTREAL QUE	B A 2 MU 6 8706

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HAYES MERILYN J 345 BEVERLEY AVE MONTREAL 16 QUE	B SC P OT 3 RE 8 3113	HEENAN ROY MICHAEL LACAUD 439 VICTORIA AVE WESTMOUNT QUE	B C L 3 WE 2 7237
HAYES ROSE E 975 DUNRAVEN RD TOWN OF MT ROYAL QUE	B ARCH 2 RE 8 7147	HEENEY FREDERICK MACDONALD COLLEGE 224 BUENA VISTA RD OTTAWA ONT	B SC AGR 1
HAYMAN MARILYN JEAN 1009 SHERBROOKE ST W MTL 61 OAKLAND RD HALIFAX N S	B SC P OT 2	HEENEY STEPHEN H 326 PORTLAND AVE TOWN OF MT ROYAL QUE	B A 2 RE 3 3076
HAYTER DAVID GEORGE 3405 VENDOME AVE MONTREAL 28 QUE	M A 1 HU 8 8070	HEFT MELVYN 3608 RIDGEWOOD AVE APT 506 MONTREAL QUE	D D S 4 RE 7 3428
HAZZAN BENJAMIN DAVID 5240 VAN HORNE AVE MONTREAL QUE	M A 1 RE 1 0287	HEISLER MARILYN ELIZABETH ROYAL VICTORIA COLLEGE 1068 RAE ST REGINA SASK	B A 2 VI 2 0487
HAZAN DAVID V 467 COTE ST ANTOINE RD WESTMOUNT QUE	B COM 2 HU 8 6247	HEITNER LARRY 4995 CARLTON AVE MONTREAL 29 QUE	B ENG 1 RE 3 2130
HAZAN GIACOMO J 856 PLYMOUTH AVE APT 334 TOWN OF MT ROYAL QUE	B ENG CIV 3 RE 7 5107	HEMAL KENNETH J 1285 REGENT RD TOWN OF MT ROYAL QUE	B A 2 RE 7 4224
HAZLETT GWENDOLYN C 3502 ADDINGTON AVE MONTREAL 28 QUE	M L S 3 HU 4 3887	HELD DEBORAH JOAN EMMA 1491 PAINTER CIRCLE VILLE ST LAURENT QUE	B A 1 RI 4 3088
HEADON RONALD JAMES 134A LAKESHORE RD LAKESIDE QUE 3328 LAKELAND CRES BURLINGTON ONT	B SC AGR 1 OX 5 3809	HELD ROBERT E 3483 PEEL ST MTL 1286 PRESIDENT ST BROOKLYN 13 N Y USA	B COM 2 VI 2 0882
HEALEY LAWRENCE A BRITAIN HALL MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	2 TCHRS 2	HELPER CHRISTIAN 3407 HUTCHISON ST MTL 53 SCHUMANN ST BONN GERMANY	M A 1
HEARD G W KENNETH 3563 UNIVERSITY ST APT 36 MTL ONTARIO LADIES COLLEGE WHITBY ONT	M A 1 VI 5 9487	HELLE STEPHEN JOSEPH ROYAL VICTORIA HOSPITAL 5210 RANDALL AVE MONTREAL 29 QUE	MED DIPL 3
HEARD DONALD A F 3563 UNIVERSITY ST APT 36 QUE ONTARIO LADIES COLLEGE WHITBY ONT	MUS B 2 VI 5 9487	HELLSTROM ANITA MARISA MACDONALD COLLEGE 8647 BERRI ST MONTREAL QUE	3 TCHRS
HEBB JANE NICHOLS 63 NELSON ST MONTREAL WEST QUE	B A 3 HU 4 8225	HEMPHILL ROBERT BURNS MACDONALD COLLEGE DESEC N S	B SC AGR 3
HEBB MARY E 63 NELSON ST MONTREAL WEST QUE	B A 2 HU 4 8225	HENDELMAN WALTER J 5224 SARANAC AVE MONTREAL QUE	MD CM 2 HU 1 9681
HEBERT GERARD J 25 JARRY W MONTREAL 11 QUE	PH D 4 DU 7 2541	HENNESSY ALICE NEVILLE MACDONALD COLLEGE 3575 DE SOULIGNY THREE RIVERS QUE	2 TCHRS 1
HEBERT JACQUES R 3439 STE FAMILLE MTL ST WENCESLAS CO NICOLET QUE	B ENG CIV 4 VI 4 0939	HENDERSON BEVERLY ANN 270 SHERATON DR MONTREAL WEST QUE	B A 2 HU 9 5950
HEBERT PIERRE 2650 NICOLET MONTREAL QUE	B C L 1 LA 3 1927	HENDERSON IAN ALEXANDER 5171 MARIETTE AVE MONTREAL QUE	B ENG EL 3 HU 6 5136
HEBERT RAYMOND C A F J 1405 DUMFRIES RD TOWN OF MT ROYAL QUE	B ENG 1 RE 1 2506	HENDERSON JOHN WILLIAM R 4925 PATRICIA AVE MONTREAL QUE	B A 2 HU 4 5804
HECHTMAN PETER BENJAMIN WILSON HALL 322 LEVINSOHN PL ENGLEWOOD NEW JERSEY USA	B SC 1 VI 4 0624	HENDERSON SHIRLEY J MACDONALD COLLEGE 7815 ROUX ST MONTREAL 5 QUE	2 TCHRS 2
HECKELSMUELLER HASEO F W 3547 DUROCHER ST APT 8 MONTREAL QUE	B C L 4 VI 5 9765	HENDRY REV JAMES BOX 111 MANSONVILLE QUE	B T M 1
HEDBERG DAVID L 4960 MAPLEWOOD AVE APT 1 MTL 40 DRURY LANE WORCESTER MASS USA	MD CM 4 RE 3 4707	HENNEBERRY GERALD OWEN 7 GLENADALE TERR MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	PH D 4
		HENNIGER JAMES PERRY WILSON HALL BROCKVILLE ST SMITHS FALLS ONT	B SC 4 VI 4 0624

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HENNIGER SUSAN LEE ROYAL VICTORIA COLLEGE BROCKVILLE ST SMITHS FALLS ONT	B SC 2 VI 2 0847	HERSCOVICS ANNETTE A 2211 MAPLEWOOD AVE APT 2 MONTREAL QUE	PH D 1 RE 3 5176
HENRIKSEN NORMAN R 3851 UNIVERSITY ST MTL 13 PARK ST ST JOHN N B	B SC 2	HERSCOVITCH C LIONEL 2940 BRIMPTON AVE APT 5 MONTREAL QUE	D D S 4 RE 7 9713
HENRY ANNE R STEWART 3057 CEDAR AVE MONTREAL 25 QUE	PH D 2 WE 5 1295	HERSCOVITCH FRED IRWIN 2284 MANITA ST VILLE ST LAURENT QUE	B ARCH 2 RI 8 7403
HENRY JAMES W 7291 9TH AVE ST MICHEL QUE	B ENG CH 3 RA 2 5525	HERSH WILLIAM LEWIS 3530 NORTHCLIFFE AVE MONTREAL QUE	B SC 1 HU 1 5079
HENSHAW DORIS PATRICIA 267 NEPTUNE BLVD DORVAL QUE	GRAD DIP ME 1 0480	HERSHENFIELD EARL M 4710 VEZINA AVE MONTREAL QUE	B SC 2 RE 7 7415
HENSON FRANCES MARGARET 570 MERRY ST S MAGOG QUE	3 TCHRS	HERSHEY SUSAN JOAN ROYAL VICTORIA COLLEGE 1098 WESTERN AVE ALBANY 3 N Y USA	B SC 2 VI 2 0334
HENSON JOAN CATHERINE ROYAL VICTORIA COLLEGE 17 CHESTNUT PARK RD TORONTO 5 ONT	B A 2 VI 2 0571	HERZBERG MARY O 1080 DUMFRIES RD TOWN OF MT ROYAL QUE	B C L 2 RE 8 1321
HERBERT STEPHEN W 4687 CARLTON AVE MONTREAL 26 QUE	B SC 2 RE 7 7869	HERZIG SHEILA 861 DOLLARD AVE MONTREAL QUE	B A 3 CR 2 7956
HERBST LYDIA FRANZISKA 16 ST JACQUES ETE ROSE DE LAVAL QUE	M B W 1 NA 5 4943	HEBELTINE ELISABETH ROYAL VICTORIA COLLEGE 28 ADOLPHE PASTEUR RD PETIT SACCONEX GENEVE SWITZERLAND	B SC 4 VI 2 0477
HERCY ELAINE BEVERLY 633 ST GERMAIN AVE OUTREMONT QUE	B A 1 RE 7 8313	HEBELTINE GILBERT F D 3880 CAVENTISH BLVD APT 34 MONTREAL QUE	MED DIPL 1 HU 9 4481
HERMAN EMIL EDWARD 2205 GIRAUDARD AVE MONTREAL QUE	M A 1 HU 9 5017	HERKETH ELIZABETH 4917 VICTORIA AVE MONTREAL QUE	B A 1 HU 8 1118
HERMAN ERIC I 3468 DRUMMOND ST MONTREAL QUE	B COM 2 VI 9 9753	HESS MATTHEW LLOYD 963 CALEDONIA RD TOWN OF MT ROYAL QUE	B SC 1 RE 7 6629
HERMAN EUGENE 783 11TH AVE LACHINE QUE	2 TCHRS ME 7 6863	HETHERINGTON GEORGE F 84 VICTORIA AVE PTE CLAIRE QUE	B ENG CH 5 OX 5 3698
HERMAN MATILDA ROSE 5060 PRINCE OF WALES AVE MONTREAL 28 QUE	B A 1 HU 4 4317	HETZECK ALEXANDER T 3741 HUTCHISON ST MTL 2699 DORIS DETROIT 38 MICH USA	MD CM 2 VI 5 5975
HERMAN REGINALD GRANT 4514 MADISON AVE MONTREAL 28 QUE	B SC 1 HU 6 8907	HEWARD BARBARA JANE 589 LANSDOWNE AVE MONTREAL QUE	B A 1 HU 6 9522
HERMAN WENDY RUTH ROYAL VICTORIA COLLEGE 274 FOREST HILL RD TORONTO ONT	B A 2 VI 2 0113	HEWEL CHARLES AUGUSTUS ROYAL VICTORIA HOSPITAL 406 PINE AVE W APT 10 MONTREAL 18 QUE	MED DIPL 1
HERMITAGE LINDA MAY 495 VICTORIA AVE WESTMOUNT QUE	B SC 3 WE 7 1079	HEWETT ANNE C ROYAL VICTORIA COLLEGE 500 AVENUE RD TORONTO ONT	B ED P ED 3 VI 9 0858
HEROUX DENIS J O 3509 HUTCHISON APT 706 2383 DEFOND ST SHAWINIGAN QUE	B ENG MCH 4	HEWETT CHRISTOPHER M 42 BRENTWOOD RD BEAUREPAIRE QUE	2 TCHRS 2 OX 5 6130
HEROUX LAURIE PAUL ST BONIFACE SHAWINIGAN QUE	B ENG MCH 4	HEWLETT STEWART ARTHUR 5822A PLANTAGENET PL MONTREAL 26 QUE	B D 2 RE 7 9181
HERRADA NICHOLAS LEOPOLD 5105 COTE ST LUC APT 14 QTA MARGARITA NO 15 AV MONTEVIDEO LOS CAOBOS CARACAS VENEZUELA	B ENG 1 HU 8 8394	HEWSON JOHN RANDALL 4870 MAYFAIR AVE MONTREAL 28 QUE	B SC 2 HU 6 9835
HERRON ALEXANDER WILLIAM 3581 MARLOWE AVE MONTREAL QUE	B A 3 HU 8 8545	HIBBERT JEAN E LAIRD HALL ANCHOUV P O JAMAICA W I	B SC AGS 2
HERSCHMAN PETER LEON 4600 KENT AVE MONTREAL QUE	B SC 1 RE 8 7331	HICKEY ERIC CAMPBELL 4014 MARCIL AVE MONTREAL QUE	D D S 3 HU 9 7409
		HICKIE GUY HEWSON 655 MITCHELL AVE TOWN OF MT ROYAL QUE	B SC 3 RE 7 6911

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HICKS ARTHUR MICHAEL BOX 86 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	M SC 1	HILTON JAMES PHYLLIS K 753 LANSDOWNE AVE WESTMOUNT QUE	B A 1 HU 6 5102
HICKS GEORGE DAVID 373 MERTON AVE ST LAMBERT QUE	M S D DIP OR 1 7356	HILTON JAMES VALERIE E 753 LANSDOWNE AVE WESTMOUNT QUE	B A 3 HU 6 5102
HICKS RUBY LAUREEN 647 VICTORIA AVE WESTMOUNT QUE	B A 2 HU 8 7938	HINDE HENRY WALTON 39 WINDSOR AVE WESTMOUNT QUE	B ENG 1 HU 1 3880
HICKSON MARGARET L 488 LANSDOWNE AVE WESTMOUNT QUE	B A 3 WE 7 1830	HINDE ROSALIE A LAIRD HALL 5 MALL RD KINGSTON 11 JAMAICA W I	M SC 2
HIGGINS EDWARD CONDON 4650 BESSBOROUGH AVE MONTREAL 28 QUE	B ENG CIV 5 HU 4 1242	HINDE SHIRLEY E LAIRD HALL 34 JEMINGHAM AVE BELMONT PORT OF SPAIN TRINIDAD W I	B SC H EC 2
HIGGINS LEONARD MICHAEL 3775 UNIVERSITY ST MTL 67 SEWELL ST ST JOHN S N B	MD CM 3	HINGSTON JUDITH E 614 VICTORIA AVE WESTMOUNT QUE	B A 1 HU 1 2984
HIGGINS LINDA JANE ROYAL VICTORIA COLLEGE WESTFIELD R R 1 KING S CO N B	B A 2 VI 2 0527	HINTON PETER HERBERT 3434 MCTAVISH ST MTL 34 LENNOX Gdns FLAT 2 LONDON S W I ENGLAND	B ENG CIV 5 VI 2 4492
HIGGS ALAN JAMES 30 RICHELIEU BLVD ST MILAIRE STA QUE	B A 1	HIRSH HARVEY 6375 CHESTER AVE MONTREAL QUE	B SC 3 HU 1 1243
HIGGS STEPHEN A 538 CHESTER AVE TOWN OF MT ROYAL QUE	B SC 1 RE 8 4397	HISCOCKS DAVID CHARLES DOUGLAS HALL MACKENZIE DEMERARA RIVER BRITISH GUIANA	B ENG 1 VI 4 0977
HILBORN JOHN CHENWELL MACDONALD COLLEGE 564 BIRCH AVE ST LAMBERT QUE	B SC AGR 1	HISCOCK HUGH KEITH 3506 UNIVERSITY ST MTL 306 MAIN ST OTTAWA ONT	B ARCH 3 VI 4 0624
HILDEBRAND ALVIN FISHER 6991 SOMERLEY AVE MONTREAL QUE	MED DIPL 3 HU 1 2374	HISLOP ANNE HAMILTON ROYAL VICTORIA COLLEGE R F D 1 PORTSMOUTH NEW HAMPSHIRE USA	B ENG 1 VI 2 0829
HILL ALAN STANLEY DOUGLAS HALL 352 8TH ST SHAWINIGAN QUE	B ENG PHY 3 VI 4 0977	HO CHI WAI LOUIS 3486 JEANNE MANCE ST APT B MTL 518 NATHAN RD 3RD FLOOR KOWLOON HONG KONG	B ENG CIV 4 VI 2 0017
HILL ARNOLD JAMES 2255 CHOMEDY ST MTL R R 1 YARMOUTH N B	B SC 2	HO KA WO 258 SHERBROOKE ST W MTL 64 PORTLAND ST OR FL KOWLOON HONG KONG	B SC 2
HILL DONNA NANCY 7390 OUIMET ST MONTREAL 19 QUE	B A 3 PO 8 5119	HO KUM HUNG 3561 LORNE AVE MONTREAL QUE	M SC 1
HILL ELAINE BRENDA 2275 VALADE VILLE ST LAURENT QUE	B A 1 RI 4 5065	HO PO WING 3512 SHUTER ST MTL 29 MILLWOOD RD 2ND FL KOWLOON HONG KONG	B ENG CIV 5
HILL HAZEL ANDREA 87 STERLING AVE VILLE LASALLE QUE	B SC 2 DO 5 0779	HOCH YVETTE 7045 QUERBES AVE MONTREAL QUE	B SC 2 CR 6 0896
HILL ROBERT ANDREW P O BOX 214 MACDONALD COLLEGE 4151 HARVARD AVE MONTREAL QUE	B ED 4	HOCKMAN ELISE JANE 4041 OXFORD AVE MONTREAL QUE	B A 1 HU 6 5660
HILL ROSE OGILVIE 4545 ROYAL AVE MONTREAL QUE	MED DIPL 4 HU 9 2341	HODDER BETH MARY 11830 NORWOOD AVE MONTREAL 18 QUE	PARTIAL DU 8 6435
HILLMAN DONALD ARTHUR 130 BROCK AVE S MONTREAL WEST QUE	PH D 2 HU 1 4973	HODGINS LARRY EDWIN 2135 BEACONSFIELD AVE APT 103 MTL 2195 KING ST E KITCHENER ONT	PH D 2
HILLSMAN DEANE 3650 LORNE GRES APT 3 214 WAVERLEY ST WINNIPEG 9 MAN	M SC 1 VI 5 9935	HODGINS WILLIAM R MACDONALD COLLEGE BOX 242 SHAWVILLE QUE	B SC AGR 2
HILTON PAUL MORRIS MACDONALD COLLEGE C B A RESEARCH STA FREDERICTON N B	B SC AGR 1	HODGSON CHARLES 18 EDGEHILL RD MONTREAL 6 QUE	M SC 2 HU 1 2926
HILTON SANDRA ELIZABETH STEWART HALL 24 BELMONT AVE OTTAWA ONT	B ED P ED 2		

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HODGSON GEORGINA E 24 WAVERLEY RD PTE CLAIRE QUE	B A 2 OX 5 2866	HOLMES STANLEY L BRITTAIN HALL R R 1 AYER S CLIFF QUE	B SC AGR 2
HODGSON MONA BEATRICE STE MARTHE CO VAUDREUIL QUE	2 TCHRS 1	HOLMES THOMAS V 3609 UNIVERSITY ST MTL 1025 DELAWARE ST SHREVEPORT LA USA	D D S 1 AV 8 6307
HODGSON ROBERT L K BRITTAIN HALL STE MARTHE CO VAUDREUIL QUE	B SC AGR 2	HOLMES WILLIAM EDWARD 3433 DUROCHER ST APT 206 MTL 2330 DOWNING ST DENVER COLO USA	D D S 3
HOEKSTRA PIETER BOX 44 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	M SC 2	HOLNESS DONALD EVERSON MACDONALD COLLEGE CHRISTIANA JAMAICA W I	B SC AGR 3
HOEN ERNST LEON W B 221 STRATHEARN AVE MONTREAL WEST QUE	PH D 2 HU 4 1529	HOLT BERTHA W G 3425 STANLEY ST APT 3 MONTREAL QUE	M S W 1 AV 8 4477
HOFFMAN DENTON ERNEST MACDONALD COLLEGE BOX 370 EGANVILLE ONT	B SC AGR 1	HOLT PATRICIA ANN ROYAL VICTORIA COLLEGE 1468 KING ST E HAMILTON ONT	MD CM 1 VI 9 0993
HOFFMAN JOHN CHARLES 3205 ELLENDALE AVE APT 6 MONTREAL QUE	E T M 1	HOLTVED CARL JOHN JOSEPH 481 PRINCE ARTHUR ST W PORT DOVER ONT	B ENG EL 3 AV 8 7773
HOFMANN HANS JORG 2672 ST ZOTIQUE ST E MONTREAL 36 QUE	M SC 2	HOLTZMAN DIANE LOVIA 4549 HAMPTON AVE MONTREAL 28 QUE	B SC P OT 4 HU 1 1073
HOGUE PIERRE 10795 D AUTEUIL MONTREAL QUE	B C L 1 DU 8 2008	HOLME WILLIAM LESLIE 606 GROSVENOR AVE WESTMOUNT QUE	B C L 1 HU 1 1535
HOISAK OLGA 8637 OUTREMONT AVE MONTREAL 15 QUE	B A 1 CR 2 9769	HONTZEAS SOTIRIOS 8915 ST URBAIN ST APT 3 MONTREAL QUE	PH D 2 DU 9 9992
HOISAK PETER 8637 OUTREMONT AVE MONTREAL 15 QUE	B ENG CIV 4 CR 2 9769	HOOD DANIEL MICHAEL 3505 LORNE AVE MTL PARADISE RACE COURSE P O JAMAICA W I	B ENG 1
HOLCOMB ROBERT TELFORD 3427 HARVARD AVE MONTREAL QUE	B ENG MCH 5 HU 6 5418	HOOKER MARY C STEWART HALL ORMSTOWN STA QUE	B SC H EC 2
HOLDEN GLENDA GRACE MACDONALD COLLEGE 3502 WALKLEY AVE MONTREAL QUE	3 TCHRS	HOSEN SALIM 3547 HUTCHISON ST MONTREAL QUE	B SC 3
HOLDER DAPHNE JEAN 4134 DORCHESTER ST W MTL 27 CHARTER ST GILLINGHATT KENT ENGLAND	PH D 2 WE 3 7890	HOPKINS CHARLES A 1001 SHERBROOKE ST W MTL MR C HOPKINS MACTIER ONT	B ENG 2 VI 4 0811
HOLLAND BASIL ANTHONY 5957 SOMERLED AVE MONTREAL QUE	M A 1 HU 1 4551	HOPKINS EDWARD A 3525 SHUTER AVE APT 28 328 FAIRMONT AVE OTTAWA ONT	B ARCH 3
HOLLAND JANET MCREA 166A LAKESHORE DR DORVAL QUE ST SAUVEUR DES MONTS QUE	B SC 1 ME 1 5645	HOPKINS FLORENCE M 5418 MOUNTAIN SIGHTS MONTREAL QUE	B SC 4 HU 9 3744
HOLLANDER RUTH B 258 SENNEVILLE RD SENNEVILLE QUE	PARTIAL 0	HOPPENHEIM BEREL M 2497 GOYER ST MONTREAL QUE	B A 3 RE 7 3872
HOLLANDER EUGENE MICHAEL 3790 MARLOWE AVE MONTREAL QUE	B ENG 1 HU 4 5733	HOPSON DANA LEIGH 5230 HAMPTON AVE MONTREAL QUE	B A 3 HU 1 9289
HOLLANDER EVELYN SARAH R 4986 LACOMBE AVE MONTREAL QUE	B A 1 RE 8 3534	HOPTION GORDON 2049 MCILL COLLEGE AVE APT 8 MTL 118 UMBILO RD DURBAN NATAL S AFRICA	B ENG 1
HOLLIS ANTHONY WOLCOTT L 3473 UNIVERSITY ST MTL KENT AVE DEVONSHIRE BERMUDA	B A 3	HORN DAVID DINSMORE 4043 VENDOME AVE MTL 17 MAIN ST FARMINGTON MAINE USA	B SC 1
HOLLIS PAMELA JOAN LAIRD HALL C O TEXACO TRINIDAD IN C POINTE A PIERRE TRINIDAD W I	B SC H EC 1	HORN IRVING HAROLD 4080 MAPLEWOOD AVE APT 7 MONTREAL QUE	MED DIPL 3 RE 1 0987
HOLLIS REGINALD 570 MILTON ST APT 14 MONTREAL 18 QUE	E T M 2 VI 4 1675		

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HORNE DONALD STANLEY M 220 ELM AVE APT 2 WESTMOUNT QUE	B SC 3 WE 3 6832	HOWES DENNIS JOSEPH 2585 DAVIDSON ST APT 14 433 COLONIZATION RD W FORT FRANCES ONT	B SC 2
HORNE JOHN 3851 UNIVERSITY ST MONTREAL QUE	B COM 4 VI 2 6790	HOWICK STEPHEN ANDREW 51 VIVIAN AVE MONTREAL 16 QUE	B A 2 RE 8 9001
HOROVITCH ARTHUR 5280 ESPLANADE AVE MONTREAL QUE	B A 1 CR 1 5069	HOWITT FRANCIS 4911 FULTON ST MTL OAKLEIGH	M ENG 3
HOROVITCH GERALD W 3280 LINTON AVE APT 7 MONTREAL QUE	B ARCH 5 RE 3 8090	HOWITT PATRICIA 4911 FULTON ST MONTREAL 29 QUE	B A 4
HOROVITCH MYRNA 4483A ESPLANADE AVE APT 2 MONTREAL QUE	3 TCHRS VI 4 6836	HOWLAND PETER ARDEN 3466 MCTAVISH ST MTL 189 ALLWOOD DR ROCHESTER 17 N Y USA	MD CM 3 AV 8 9533
HOROVITZ JOEL HERBERT 3483 REEL ST MTL 219 SECOND ST W CORNWALL ONT	B A 2 VI 2 0882	HOWLETT MARILYN C 3239 APPLETON AVE MONTREAL QUE	B CL 2 RE 3 3574
HOROVITZ WILLIAM BELA 6115 DE VIMY AVE MONTREAL 8 QUE	M A 2 RE 3 5258	HOYT GAIL S LAIRD HALL P O BOX 329 MONTGO BAY JAMAICA W I	B SC H EC 8
HOROWITZ ISADORE 641 SMART AVE MONTREAL 29 QUE	MD CM 2 HU 4 5541	HRADDECKY PAULA HELENA 5098 BROADWAY AVE W MONTREAL QUE	B SC 2 HU 9 4133
HOROWITZ YIGAL SHALOM 4687 LACOMBE AVE MONTREAL QUE	B SC 3 RE 7 0600	HRYNIEWSKI DANNY BOHDAN 40 8TH AVE LASALLE QUE	B ENG MCH 5 DO 6 9389
HOREMAN BRYCE ELDON 1601 GRAHAM BLVD APT 18 MONTREAL 16 QUE	B ENG CIV 5 RE 7 2534	HSEU JOHN DEREK WEI SHENG 3610 DUROCHER ST APT 18 P O BOX 1930 CRANBROOK B C	MD CM 3 VI 9 4479
HORTON GEORGE 645 PRINCE ARTHUR ST APT 11 MONTREAL QUE	B A 2	HSEU SHOU HEIM 25 PINE AVE W APT 439 MONTREAL QUE	MED DIPL 2 VI 4 5627
HORWOOD ROBERT TEMPLE 3592 UNIVERSITY ST MTL 10 BOURDAN RD ALIPORE CALCUTTA 27 INDIA	B ENG MCH 4 VI 9 0328	HTAY MAUNG THAN 3615 UNIVERSITY ST APT 4 191 MABA SANDOOLA RD RANGOON BURMA B O D	M SC 2 VI 4 0888
HOSKIN ANDREW ALI 620 PRINCE ARTHUR ST W 27 CORONATION ST ARANJUEZ ESTATE SAN JUAN TRINIDAD W I	MD CM 4 VI 9 7406	HU ISABEL CHIN SHAI 736 ATWATER AVE MONTREAL QUE	B COM 1 RE 7 5040
HOSKIN ROBERT WOLSELEY O 3390 BARCLAY APT 12 MTL SOUTHERN MAIN RD CUREPE TRINIDAD F W I	B ENG MCH 5 RE 9 8176	HUAPAYA LUIS DOUTIL 4565 QUEEN MARY RD MTL AVE 2 DE MAYO 561 OU ISIDRO LIMA PERU	MED DIPL 1
HOUGHTON JOHN C 3705 COTE VERTU RD VILLE ST LAURENT QUE	B ENG 2 RI 7 1284	HUBBARD JR ASA G 6450 SHERBROOKE ST W APT 5 MONTREAL 28 QUE	MD CM 1
HOULE MARIE MARGUERITE O 685 AROYLE ST APT 5 VERDUN QUE	B SC 3 PO 7 8187	HUBERMAN CAROL 772 MCEACHRAN AVE OUTREMONT QUE	B SC 3 CM 9 9496
HOUSTON DIANA FLEMING 4823 DE TONTY ST MONTREAL QUE	2 TCHRS 2	HUBERMAN MIRIAM 772 MCEACHRAN AVE OUTREMONT QUE	B A 4 CM 9 9496
HOWARD INGRID ELIZABETH ROYAL VICTORIA COLLEGE HAWKESBURY ONT	B A 1 VI 9 0030	HUBLER BENO 4855 COTE ST LUC APT 503 OJMANSEY RUMELI CAD VILDANOP 813 ISTANBUL TURKEY	B SC 3 HU 1 3416
HOWARTH BARRY ARTHUR 107 PRATT AVE LONGUEUIL QUE 99 ST CHARLES ST E LONGUEUIL QUE	M ENG 1 OR 7 8426	HUBSCHER BETH C JACOBS 5703 WHITEHORNE AVE MONTREAL QUE	PARTIAL
HOWDEN JOHN ROBERT BRITTAIN HALL 4355 ROSEDALE AVE MONTREAL QUE	2 TCHRS 1	HUBSCHER SHAYNA 318 BROOKFIELD AVE MONTREAL 16 QUE	B SC 1 RE 3 2207
HOWELL DORA IRENE STEWART HALL 4905 PATRICIA AVE MONTREAL QUE	2 TCHRS 2	HUCAL ROMAN SVIATOSLAV 6460 45TH AVE MONTREAL 36 QUE	B ENG 2 CL 5 8771
HOWELL JANICE HOPKINS 1340 LEPINE ST VILLE ST LAURENT QUE	B SE F OT 1 RI 7 4681		

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MCKINSEY CLAIR 3563 UNIVERSITY ST APT 17 MONTREAL QUE	M SC 2 AV 8 4624	MUNTE MARCOURT ANTONIO 4170 LINTON AVE APT 2 MONTREAL 26 QUE	B A 1 RE 8 4595
MUDEC PETER PAUL 1441 DRUMMOND ST MTL 515 RICHMOND ST LONDON ONT	PH D 2	MUNTE KEITH DONNERSON 3473 UNIVERSITY ST MTL VENTURE ST JOHN BARBADOS W I	M A 1 VI 9 1791
HUDON PIERRE PAUL DENIS 125 PAGUELO AVE OUTREMONT 8 QUE	B ENG 1 CR 6 1174	MUNTER CHARLES GRANT 146 SHERATON DR MONTREAL WEST QUE	B COM 4 HU 9 2837
HUDSON CHARLES J 3570 SMUTER ST APT 7 MTL 270 RT 1 METUCHEN N J USA	MD CM 1	MUNTER JOHN GERALD 3416 PATRICIA AVE APT 8 MONTREAL QUE	PH D 3 HU 8 0129
HUDSON RUTH F A STEWART HALL 110 RENFREW AVE OTTAWA ONT	P E DIP 2	MUNTER MARY JUDITH ROYAL VICTORIA COLLEGE 2714 MARQUETTE ST CALGARY ALTA	B SC 4 VI 2 0477
HUECKEL HANS J BRITAIN HALL MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	B SC AGR 4	MUNTER PENELOPE 146 SHERATON DR MONTREAL WEST QUE	B A 1 HU 9 2837
HUESTON DEBORAH RUTH 279 MORRISON AVE MONTREAL 16 QUE	B A 1 RE 7 3075	MUNTER TYNE ELIZABETH STEWART HALL 136 MOORE PARK AVE WILLOWDALE ONT	B SC H EC 3
HUGHES ANNIE SHAW YOUNG 1662 LYALL AVE MONTREAL 5 QUE	H B D DIP CL 5 0998	MUNTER VIOLET PATRICIA MACDONALD COLLEGE 1298 JEAN NICOLET THREE RIVERS QUE	2 TCHRS 1
HUGHES DOUGLAS IRA 4110 MADISON AVE MONTREAL 28 QUE	B ENG EL 3 HU 6 4400	HUOT JOSEPH ALBERT J J 1621 ST TIMOTHEE ST MONTREAL QUE	B ENG 2 LA 2 3534
HUGHES GWYNETH E 68 BROCK AVE N MONTREAL WEST QUE	B A 2 HU 4 0653	MURAJ HELEN ICKA 5318 LUCY PL MONTREAL 29 QUE	M B W 1 RE 7 0368
HUGHES JAMES McDOWELL 4665 GROSVENOR AVE MONTREAL QUE	B COM 2 HU 1 3941	MURFORD GORDON JAMES 330 36TH AVE LACHINE QUE	B SC 1 ME 7 8265
HUGHES JOHN GRAHAM 2285 RUE ST MATHIEU WESTMOUNT QUE	B A 2	MURLEY MARTHA ELLEN ROYAL VICTORIA COLLEGE 45 WARREN ST LENNOXVILLE QUE	B SC 2 VI 2 0180
HUGHES MARILYN MAE MACDONALD COLLEGE 6501 BRUTON RD MONTREAL 9 QUE	3 TCHRS	MURUBISE ANDRE BERNARD 4595 ST IGNATIUS MONTREAL QUE	B ENG EL 4 HU 6 6445
HUGILL JOHN WILLIAM 427 DUFFERIN RD HAMPSHIRE QUE	B ENG 2 HU 6 2398	MUSK ETHEL JEAN MACDONALD COLLEGE R R 1 MELBOURNE QUE	2 TCHRS 1
HUI CHEUK KO 3511 LORNE AVE APT 8 MTL 198 QUEEN S RD CENTRAL OR FLOOR HONG KONG	B ENG 1	MUSK ISABEL RITA MACDONALD COLLEGE R R 1 MELBOURNE QUE	2 TCHRS 1
HULL BARRY GORDON 3478 MCTAVISH ST MTL 80 HEATH ST W TORONTO ONT	B ENG EL 3 VI 2 7412	HUTCHESON JOHN A 3506 UNIVERSITY ST MTL 117 CHATEAUX RD TORONTO 12 ONT	B ENG CH 3 VI 4 0624
HULME CLAUDIA I 29 THURLOW RD HAMPSHIRE QUE	B SC 1 HU 6 6700	HUTCHINSON PETER B 1561 PINE AVE W APT A MTL 100 SOUTHWOOD AVE SILVER SPRING MARYLAND USA	MD CM 1 WE 5 5188
HULME FRANCES ELIZABETH MACDONALD COLLEGE 160 BEAUCE RD BEAUMONT QUE	2 TCHRS 1	HUTCHISON JOHN DENNIS 620 GRAHAM BLVD TOWN OF MT ROYAL QUE	B ENG CH 4 RE 7 6788
HUME EDWARD FRASER 370 PUTNEY ST ST LAMBERT QUE	B ENG 1 OR 1 7714	HUTCHISON WILLIAM B 2071 GREY AVE MONTREAL 28 QUE	B A 3 HU 4 8191
HUMPHREYS PETER 342 SANFORD AVE ST LAMBERT QUE	B SC 1 OR 1 8615	HUTTON HARVEY JONATHAN 635 VICTORIA AVE WESTMOUNT QUE	B ENG MI 8 HU 9 3131
HUNG HENRY HIN LAI 3567 HUTCHISON ST MTL 6 LEUNG PAI TERR HONG KONG	PARTIAL VI 4 4557	HUTTON LINDA CLAIRE 4581 WILSON AVE MONTREAL 28 QUE	A & B COM 1 HU 4 9033
HUNGERFORD MARILYN BERYL 142 BROUGHTON RD MONTREAL WEST QUE	B SC P OT 4 HU 6 4767	HUYGHUES DESPOINTE RENE 3625 RIDGEWOOD AVE APT 501 MONTREAL QUE	PH D 4 RE 1 2942

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HYDE CLARKE TANEDA D 930 44TH AVE LACHINE QUE	B SC 3 ME 7 4728	INGERMAN DONALD 3559 UNIVERSITY ST MTL 119 E 89TH ST BROOKLYN 36 N Y USA	D D B 3
HYDE MARTIN JAMES BOX 245 MACDONALD COLLEGE SPRINGFIELD COTTERIDGE WORCESTER ENGLAND	PH D 2	INGLIS FREDERIK GRAHAM 5546 GATINEAU AVE MTL 28 BLOOMINGDALE TERR HALIFAX N S	MED DIPL 5 RE 3 4615
HYDE PETER BERNARD MILLER 3066 TRAFALGAR AVE MONTREAL 6 QUE	B A 3 WE 2 2765	INGRAHAM GEORGE WILLIAM 545 PINE AVE W MTL 1087 ASHMOUNT OAKLAND CALIF USA	MD CM 3
HYDE ROBERT L 3851 UNIVERSITY ST MTL 1215 E 18TH AVE THE DALLES OREGON USA	MD CM 2 VI 5 0575	INGRAM JORDAN MILES BOX 48 MACDONALD COLLEGE 881 RIDDELL AVE OTTAWA ONT	M SC 1
HYKAWY JENNIE STEWART HALL 2218 PAPINEAU ST VILLE JACQUES CARTIER QUEBEC	B ED 2	INOSTER LILIANE THERESE 15 ST ANNE ST STE ANNE DE BELLEVUE QUE 4191 DE LA SAVANE MONTREAL QUE	2 TCHRS 1
HYKAWY JOHN 2218 PAPINEAU ST VILLE JACQUES CARTIER QUE	B A 3 OR 7 1618	INKNER HERBERT 5208 ST URBAIN ST MONTREAL QUE	B SC 2 CR 7 3394
HYMAN BEVERLEY YVONNE L ROYAL VICTORIA COLLEGE LUGCA JAMAICA W I	B A 2 VI 2 0597	INKPEN JAMES A MACDONALD COLLEGE 213 ST ANNA ST SYDNEY N S	B SC AGR 4
HYMAN ROSALIND 5001 JEAN BRILLANT ST MONTREAL QUE	B COM 1 RE 7 3946	INNES BRUCE JEREMY M 3524 HUTCHISON ST APT 38 MONTREAL QUE	MD CM 4 VI 9 9846
HYNDMAN JANET MCCRAE ROYAL VICTORIA COLLEGE 3608 13TH ST S W CALGARY ALTA	B A 4 VI 2 0526	INNES FRANK CECIL 539 PINE AVE W MONTREAL QUE	PH D 2 VI 4 7957
HYNDMAN MARTHA ELIZABETH STEWART HALL KEMPTVILLE ONT	B SC H EC 3	INOUE LORRAINE TOMIYO 6835 ELEVENTH AVE MONTREAL 36 QUE	B SC 3 RA 2 8072
I		IOSIPOVICI MICHAEL 4650 FLAMONDON APT 9 MONTREAL QUE	B ENG MCH 3
IANGO ANITA DENISE 2366 FULTON RD TOWN OF MT ROYAL QUE	B A 4 RE 1 5286	IQBAL MUHAMMAD 3484 HUTCHISON ST MONTREAL QUE	M ENG 1 VI 4 9082
IARRERA JOHN 10580 DES PRAIRIES AVE MONTREAL QUE	B CL 1 DU 9 3953	IREDALE DORIS SANDRA 5655 MCLYNN AVE MONTREAL QUE	2 TCHRS 1 RE 7 1300
IBRAHIM AYODELE 2000 MCILL COLLEGE AVE 25 DADDY ALAJA ST LAGOS NIGERIA	B ENG CIV 4	IREDALE NANCY JANE STEWART HALL 99 WELLINGTON ST N WOODSTOCK ONT	B SC H EC 2
IBRAHIM RAGAI 3629 OKENDEN AVE MTL 7 SAAD WAKAS ST ANCIENT CAIRO CAIRO EGYPT	PH D 3 VI 9 2927	IRONSIDE NANCY KATHERINE 3495 RIDGEWOOD AVE APT 208 MTL 120 PETER ST N ORILLIA ONT	PARTIAL RE 3 6389
IONATIEFF MIKA V ROYAL VICTORIA COLLEGE RICHMOND QUE	B A 4 VI 2 0526	IRONSTONE MARILYN BELLE MACDONALD COLLEGE 73 TREMOY RD NORANDA QUE	3 TCHRS
IMNAT MILAN 2004 ST DOMINIQUE ST MONTREAL 18 QUE	B SC 2 VI 9 3148	IRVIN GEORGE WILLIAM 3602 RUE D'ROCHER MTL POOLES HAZARD RODESVILLE MD USA	B SC 1 AV 8 6772
ILLARZEWICZ JACQUELINE M 276 6TH AVE ST EUSTACHE SUR LE LAC QUEBEC	B SC 1 NA 7 2177	IRVIN JOSEPH SEDLEY 3434 MCRAVISH ST MTL 456 BUENA VISTA RD OTTAWA ONT	B A 4 VI 2 4492
ILVES ANNE REET MACDONALD COLLEGE 1538 DURHAM ST SHERBROOKE QUE	B SC H EC 1	IRWIN DOROTHY JUNE 2174 LINCOLN AVE APT 2 246 ALBERT ST KINGSTON ONT	MD CM 3 WE 2 2088
IMPERATORI EMILIO 8631 83RD AVE VILLE ST MICHEL QUE	B ARCH 3 RA 2 8449	IRWIN DOROTHY M B 490 LAKESHORE RD BEAUREPAIRE QUE	MD CM 1 OX 5 2607
		IRWIN JUDITH C 3018 TRAFALGAR AVE MONTREAL QUE	B A 3 WE 5 5918

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IRWIN JUDITH IRENE MACDONALD COLLEGE 461 STANSTEAD CRES MONTREAL 16 QUE	2 TCHRS 1	JACKSON IAN STUART R 1669 SHERBROOKE ST W MONTREAL QUE	B A 5 WE 5 0224
IRWIN RICHARD M 3018 THAFALGAR AVE MONTREAL QUE	B SC WE 5 5918	JACKSON JAMES KEITH 1810 QUERTIN ST VILLE ST LAURENT QUE	B ENG 1 RI 4 2108
ISAAC FENOT SELAM 3515 UNIVERSITY ST APT 2 KIFLE MARIAM P O BOX 1031 A A ETHIOPIA	M S W 1 AV 8 1966	JACKSON PAMELA J 4870 BEACONSFIELD AVE MONTREAL QUE	B SC P OT 1 HU 4 2021
ISAAC OSWIN D BRITTAIN HALL 227 CRAWFORD ST TORONTO ONT	B SC AGR 3	JACOB GUY BRITTAIN HALL 782 20TH ST QUEBEC 3 QUE	B SC AGR 1
ISAACSON ARNOLD HENRY 5842 HUDSON RD MONTREAL QUE	B C L RE 7 6406	JACOB NICHOLAS 2184 OXFORD ST MONTREAL QUE	B SC 1 HU 1 0869
ISAACSON JOHN W 285 BELLECHASSE ST APT 401 MTL 336 CHRISTINA ST E FORT WILLIAM ONT	B A 3	JACOBSEN MARIAN ELIZABETH ROYAL VICTORIA COLLEGE 205 FARMINGTON RD PITTSBURGH 15 PA USA	B A 4 VI 2 0477
ISAISON ROBERT A 4215 MACKENZIE ST MONTREAL QUE	B SC RE 8 8195	JACOBSON SIMON HERZL 6286 DEACON RD MONTREAL QUE	B SC 1 RE 7 3046
ISENBERG SEYMOUR 125 MT ROYAL W APT 5 MONTREAL 14 QUE	B SC VI 9 3821	JACOBSON STEPHEN 5358 BRODEUR AVE MONTREAL QUE	B ENG MCH 3 HU 6 6042
ISHMAEL ABDUL W 5609 ST URBAIN ST MONTREAL QUE	B A CR 7 6090	JAGGASSAR THEO ANTHONY 533 PRINCE ARTHUR ST APT 1 MTL SHERIFF ST TUNAPUNA TRINIDAD W I	B SC 2
ISLAM MUHAMMED F 3619 UNIVERSITY ST MTL 35C GANEK TALI LANE DACCA 2 EAST PAKISTAN	PH D 4	JAHN EDWARD MICHAEL 2247 MAPLEWOOD AVE APT 5 MONTREAL QUE	B ENG 1 RE 8 6265
ISMAIL NAEMATULLAH 3512 SHUTER ST APT 12 449 HENNESSY RD 2ND FL HONG KONG	B SC 8	JAIN MAUJI RAM 3609 HUTCHISON ST APT 10 MONTREAL QUE	PH D 3 VI 9 6223
ISRAEL ALLAN STEPHEN 3606 THE BOULEVARD WESTMOUNT QUE	B SC 4 WE 5 2976	JAIN PUSHP LATA 3609 HUTCHISON ST APT 10 MONTREAL QUE	MA 2 VI 9 6223
ISEENMAN JUDITH M 625 COTE ST ANTOINE RD WESTMOUNT QUE	B A HU 8 3264	JAKOBOVITS LEON ALEX 1320 BERNARD AVE W OUTREMONT QUE	MA 1 CR 1 5994
ISTAMOE FLARSINAH M 3426 STANLEY ST TJITTIENDO 101 5A BANDUNG INDONESIA	GRAD DIP VI 4 0360	JAMES GUILFORD FELIX 3437 HUTCHISON ST MTL 1 HEATHFIELD RD KINGSTON 5 JAMAICA W I	B SC 1 VI 4 1343
ITON JOHN WYCLIFFE 3572 HUTCHISON ST APT 8 KINGSTOWN ST VINCENT W I	B A VI 5 0344	JAMES WILLIAM RONALD BRITTAIN HALL R R 2 ALMONTE ONT	B SC AGR 2
JACK BARBARA A ROYAL VICTORIA COLLEGE 63 WINDERMERE RD LONDON ONT	B A VI 2 0847	JAMIESON CONSTANCE V 1437 MACKAY ST APT 7 MTL MALL PLAZA APTS 464 ST MARYS AVE APT 17 WINNIPEG MAN	B A 4
JACK RICHARD D 3096 GOVERN APT 19 MTL 3408 W 34TH AVE VANCOUVER B C	MD CM 2	JAMIESON IREAN ANDREA 620 ACADIA AVE LACHINE QUE	3 TCHRS ME 7 0312
JACKSON ANN GWENDOLYN 365 GLENGARRY AVE TOWN OF MT ROYAL QUE	B SC N RE 3 4444	JAMES MICHAEL C MACDONALD COLLEGE 320 KEEWATIN AVE TORONTO 12 ONT	B SC AGR 2
JACKSON EVELYN NORAH ROYAL VICTORIA COLLEGE P O BOX 421 GANANOQUE ONT	B A VI 9 0120	JANITENS GUNARS V 12501 COUSINEAU ST MONTREAL QUE	B ARCH 2 RI 4 2498
		JANKOV LUDMILA CAROLINE MACDONALD COLLEGE 23 COLLEGE RD TRURO NS	B SC AGR 3
		JANSEN STANLEY ORMAN 4520 COLONIALE AVE APT 10 MTL BOX 722 YORKTON SASK	D D S 3

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JAPP ROBERT D 3580 VENDOME AVE MONTREAL 28 QUE	B ENG CIV 8 MU 6 9004	JENKINS JOHN TREVOR 5843 7TH AVE MONTREAL 36 QUE	M S D DIP RA 2 9600
JACQUES MARGARET MACDONALD COLLEGE 4764 ROSLYN AVE MONTREAL QUE	2 TCHRS 1	JENKINS MARJORY KATHLEEN ROYAL VICTORIA COLLEGE BOX 172 MARMORA ONT	B A 3 VI 2 0113
JARED ALBERT ALLAN C O LAKEVIEW CEMETERY 200 PTE CLAIRE AVE PTE CLAIRE QUE	M S D DIP OX 5 3512	JENNE ROSS EDWARD 570 MILTON ST APT 22 MTL 23 CHURCH ST LENNOXVILLE QUE	D D S 1 VI 5 0409
JARMAN BRIAN FREDERIC 53 TUNSTALL AVE SENNEVILLE QUE	B SC AGR 1	JENNER CYNTHIA IRIS M 39 EASTBOURNE AVE BEACONSFIELD QUE	B SC M EC 1 OX 5 9223
JARRARD GERALD ALLAN P WILSON HALL 1381 PRITCHARD AVE WINNIPEG 4 MAN	B SC 1	JENNEX GILBERT F 2022 MOUNTAIN ST APT 2 APT 2 MTL 47 TACOMA DR DARTMOUTH N S	M A 1 VI 4 4805
JARRY JEAN MAURICE 204 THERRIEN ST RICHELIEU RD ST JOHNS QUE	M SC 3	JENNEY HUGH EDWARD 534 SHERBROOKE ST W 372 LAKESHORE HWY W OKAVILLE ONT	B A 2 VI 2 0757
JARVIS FREYA ADRIENNE ROYAL VICTORIA COLLEGE 116 VAN HAUTEN AVE PASSAIC NEW JERSEY USA	B A 1 VI 9 0030	JENNINGS MARGARET R 5960 5TH AVE MONTREAL 36 QUE	B ED 4 RA 7 2697
JASMIN PAULINE M J 6220 COTE DE LIESSE DORVAL QUE	B SC POT 3 ME 1 3678	JEPHCOTT JAMES R P O BOX 132 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	M S D DIP
JASSBY DANIEL LEWIS 4330 HAMPTON AVE MONTREAL 28 QUE	B SC 2 MU 1 4713	JEPSEN ANDERS FREDERIK NABE 1978 ST GERMAIN VILLE ST LAURENT QUE	PARTIAL RI 7 1980
JASTRZEBSKI ZYGMUNT M 2375 TRENTON AVE MONTREAL QUE	B SC 3	JERVIS WILLIAM H 3775 UNIVERSITY ST MTL 1601 47TH ST SACRAMENTO CALIF USA	MD CM 3
JAUREQUI JOHN GARY 3495 RIDGEWOOD AVE APT 102 MTL 1001 CATALINA BLVD SAN DIEGO CALIF USA	MD CM 4 RE 3 0577	JESSOP BARBARA ELLEN 24 JASPER AVE TOWN OF MT ROYAL QUE	B SC 4 RE 7 1790
JAVID RUHA 3055 LINTON AVE APT 5 MONTREAL QUE	B L S 1 RE 1 0717	JESSOP LESLIE GAIL MACDONALD COLLEGE 614 ALGONQUIN AVE TOWN OF MT ROYAL QUE	B ED 1
JAVOSKY RUDOLPH VALENTINE 3508 DUROCHER ST MTL R R 4 ST CATHARINES ONT	B ARCH 4 VI 9 4352	JESSOP THOMAS CLIFTON 419 PRINCE ARTHUR MTL PARKDALE LODGE ST HIPPOLYTE QUE	B ENG 2 VI 9 3364
JAY ALFRED WANG LEUNG 3660 DUROCHER ST APT 3 9 LA SALLE RD KOWLOON HONG KONG	B SC 3	JETTE WILLIAM LOUIS 1947 RUE ST LUC APT 3 163 CONCORD ST OTTAWA 1 ONT	B ENG MCH 4 WE 2 7905
JAY JULIANA MARQUERITE W 3641 UNIVERSITY ST MTL 9 LA SALLE RD KOWLOON HONG KONG	B A 2 VI 9 0593	JEW HONG ANTHONY 3484 DUROCHER ST APT 203 MTL 452 14TH ST MERCED CALIF USA	MD CM 2
JAY EUSAN M 3475 UNIVERSITY ST MONTREAL 2 QUE	B A 3 VI 4 8322	JEWELL WINSTON GEORGE MACDONALD COLLEGE R R 2 LORETTEVILLE QUE	B SC AGR 1
JEDIKIN LEON 3803 THE BOULEVARD WESTMOUNT QUE	B C L 3 MU 8 7272	JIBUIKE GODWIN U 3489 HUTCHISON ST MTL 2A BADDELEY AVE YABA NIGERIA	B COM 2 AV 8 4858
JEFFERS HUGH F MACDONALD COLLEGE 7 PITT ST PORT OF SPAIN TRINIDAD W I	M SC 2	JIRAVA KAMIL MILAN 2254 ST MATHEW ST MONTREAL QUE	B COM 2 WE 7 8390
JEFFERY ROBERT F 4453 WESTERN AVE MTL 22 HALL AVE PASHUA N M USA	MD CM 4	JOBIN LUC J BOX 164 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	M SC 2
JELLEY JOAN MORGAN 3449 PEEL ST APT 11 MTL 275 HARRINGTON AVE PORT ARTHUR ONT	GRAD DIP VI 4 0722	JOBLING JOHN KEITH C O A E MOOLEY 11787 GENERAL GIRAUD CARTIERVILLE QUE	PARTIAL RI 7 2734
JENKINS DOROTHY 1900 LINCOLN AVE MONTREAL QUE	MUS 1 WE 3 7145		

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JODOIN MARIE JACQUELINE M 10340 ST URBAIN ST MONTREAL QUE	B SC 2 DU 8 7500	JOHNSTON JOHN BEVERLY DOUGLAS HALL P R NO 2 RED BANK N B	B SC 2
JOHANNING ALVARO 3485 MCTAVISH ST MTL APARTADO 280 SAN JOSE COSTA RICA C A	B ENG 1 VI 9 0141	JOHNSTON NEIL VAN 3610 DUROCHER ST APT 33 MTL 1664 LEE RD CLEVELAND HTS 18 OHIO USA	MD CM 3
JOHANSSON LAWRENCE 55 49TH AVE LACHINE QUE	B ENG 1 ME 7 3474	JOHNSTON NORMA ELIZABETH 3640 HUTCHISON ST APT 3 MONTREAL QUE	M L S 2 VI 9 7124
JOHNS ERNEST C 4408 KING EDWARD AVE MONTREAL QUE	B ENG CIV 4 MU 1 1586	JOHNSTON ROBERT FRED 644 RIVER RD STE DOROTHEE QUE	B ENG 2
JOHNS WILLIAM RAMSEY 5538 ADALBERT AVE MTL 214 MOUNTAIN BROW BLVD HAMILTON ONT	MED DIPL 2 MU 9 8130	JOHNSTONE PETER DOUGLAS 824 51ST AVE LACHINE QUE	B ENG AM 3 ME 7 0869
JOHNSON CARL CONRAD 1441 DRUMMOND ST MTL R R NO 1 LANSDOWNE ONT	B SC 4	JOHNSTONE VICTORIA 140 WESTMINSTER AVE MONTREAL WEST QUE	B A 2 HU 4 9674
JOHNSON CARLA ANNE ROYAL VICTORIA COLLEGE 277 WASHINGTON ST GLOUCESTER MASS USA	B SC 3 VI 2 0147	JOLLIFFE ROBERT W 640 GRAHAM BLVD TOWN OF MT ROYAL QUE	B ENG 2 RE 8 1973
JOHNSON CASWELL LEWINGTON 3583 DUROCHER ST MONTREAL QUE	B A 4 VI 9 0678	JOLLY BRANDIS D BRITTAIN HALL GREEN ISLAND JAMAICA W I	B SC AGR 4
JOHNSON DIANA DEANE 5581 QUEEN MARY RD MONTREAL QUE	B A 1	JOLSON AVIVA 1651 NORWAY RD TOWN OF MT ROYAL QUE	B A 2 RE 7 7360
JOHNSON ERIC BOX 31 ORMSTOWN QUE	B SC AGR 4	JOMM ENN 3358 SOMERSET RD VILLE ST LAURENT QUE	B SC 4 RI 8 7638
JOHNSON HAROLD DESMOND 3650 MOUNTAIN ST APT 406 ELLANGOWAN ST JOSEPH BARBADOS B W I	MD CM 4 VI 2 3305	JONES BARBARA MARY ROYAL VICTORIA COLLEGE ROCKY RIDGE HARRINGTON SOUND BERMUDA	B A 4 VI 8 0113
JOHNSON MARGARET HELENA 3650 MOUNTAIN ST MONTREAL QUE	B SC P OY 2	JONES BARRY HARRISON 1650 NORWAY RD TOWN OF MT ROYAL QUE	B SC 2 RE 7 9787
JOHNSON ROBERT M 522 MITCHELL AVE TOWN OF MT ROYAL QUE	D D S 2 RE 8 2618	JONES CAROL ANN MACDONALD COLLEGE FOSTER QUE	S TCHRS 2
JOHNSON RODNEY HARRY DOUGLAS HALL 11306 111A AVE EDMONTON ALTA	B SC 2	JONES CLAUDIA EMMA 2857 COURSEL ST MONTREAL 3 QUE	B A 1 WE 3 6191
JOHNSON WILLIAM ALBERT BRITTAIN HALL 1432 MAPLE AVE SHAWINIGAN QUE	M S D DIP	JONES DAVID MACDONALD MACDONALD COLLEGE P O BOX 874 BEDFORD QUE	B SC AGR 1
JOHNSTON ALISON MARY ROYAL VICTORIA COLLEGE 30 EAST GABLES COURT BEACONSFIELD QUE	B COM 4	JONES GRAHAM ALFRED BOX 68 MACDONALD COLLEGE 43 STRATHAVEN RD LONDON S E 12 ENGLAND	PH D 2
JOHNSTON ANNE A E 3725 JEANNE MANCE ST MONTREAL QUE	B SC 2 VI 2 5985	JONES JEFFRESS H WILSON HALL THE OLD RECTORY FARNHAM BLANDFORD DORSET ENGLAND	B ENG 2 VI 4 0624
JOHNSTON BRUCE CHANDLER 4854 DORNAL AVE MONTREAL QUE	B A 2 RE 3 4047	JONES JUDITH ANN LAIRD HALL 185 HEBERT ST VILLE ST LAURENT QUE	B SC H EC 4
JOHNSTON CHARLES EDWARD BRITTAIN HALL MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	J TCHRS	JONES KENNETH S 419 PRINCE ARTHUR ST MTL 23 WESTOVER RD VERONA N J USA	B ENG 2 VI 9 3364
JOHNSTON DONALD JAMES 2019 STANLEY ST APT 4 MONTREAL QUE	B A 4 VI 8 8561	JONES MAY JOYCE 21124 GOUIN BLVD W PIERREFONDS QUE	M A 1 NA 6 3698
JOHNSTON HAROLD W BRITTAIN HALL WINCHESTER ONT	B SC AGR 2	JONES PETER OWEN 174 VERCHERES ST GREENFIELD PARK QUE	D D S 2 OR 1 7183

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NAME ADDRESS	COURSE & YEAR TEL. NO.	NAME ADDRESS	COURSE & YEAR TEL. NO.
JONES PHILIP FREDERICK DOUGLAS HALL MELROSE 5 THE RISE LLANISHEN CARDIFF WALES U K	B COM 4 VI 4 7288	JUPITER HENZEL 934 PRATT AVE OUTREMONT QUE	B SC 1 EE 7 5897
JONES RODERICK FORBES 3851 UNIVERSITY ST MTL WESTERLEA LINLITHGOW WEST LOTOIAN SCOTLAND	B COM 3	JURKUS RIMANTAS ALBINAS 1451 CRAWFORD BRIDGE AVE VERDUN QUE	M SC 1 PO 7 4280
JONES JAMES AUGUSTUS 3619 OXENDEN AVE MONTREAL QUE	M B W 1 VI 5 6517	JUST GISELLE C O 4542 WILSON AVE MONTREAL QUE	B A 2 HU 1 0563
JOSEPH ALAN EDWARD 488 SHERBROOKE ST W MTL 17803 114TH RD JAMAICA 34 N Y USA	MD CM 3	K	
JOSEPH HENRY WALKEM 2032 METCALPE ST MTL 1 PARK PL ST CATHARINES ONT	B ENG 1 VI 2 0733		B ENG 1 RE 7 5520
JOSEPH ISABEL F 9 SPRINGFIELD AVE WESTMOUNT QUE	B SC 2 WE 7 2086		B ENG CIV 3 RE 7 4775
JOSEPH MABEL C 3486 STANLEY ST MTL ALI INDIA HYDRAENE INST 110 CHITTARONJAN AVE CALCUTTA 12 INDIA	GRAD DIP VI 4 8316		B SC 4 RE 3 8933
JOSEPH MINNA RAE ROYAL VICTORIA COLLEGE 40 VAUGHN AVE NEW ROCHELLE N Y USA	B A 1 VI 2 0597		B SC 1 HU 8 4640
JOSEPH SARA ETHEL ROYAL VICTORIA COLLEGE 1 PARK PL ST CATHARINES ONT	B A 3 VI 2 0180		D D S 1 RA 8 0662
JOSHI NARENDRA MATH HARRISON HOUSE C O T N JOSHI 3A HARDING BRIDGE RAILWAY COLONY NEW DELHI INDIA	M SC 1		MD CM 1
JOSE FRANCIS M 3480 ONTARIO AVE MTL 51 OAKLAND RD HALIFAX N S	B SC P OY 3 VI 2 0044		B C L 4 CR 2 4148
JOTCHAN RAYMOND GEORGE 6713 COTE ST LUC RD APT 4 COTE ST LUC QUE	B SC 2 HU 9 2088		2 TCHRS
JOURNEAU CYRUS QUILDROY BRITTAIN HALL MARCEL BONA CO QUE	3 TCHRS		B SC 1 RE 3 3014
JOURNEAUX ENID GWENDOLYN PORT DANIEL STA QUE	3 TCHRS		B SC 4 RE 3 3014
JOURNEAUX HOWAITH DEAN 41 PINE AVE W APT 4 MTL PORT DANIEL STA QUE	B ENG MI 5 AV 8 4806		M SC 2 RE 7 8729
JOYAL LAURENT 3687 HUTCHISON ST MTL 471 BROCK ST DRUMMONDVILLE QUE	B ARCH 5 VI 5 4975	KALIFON BERTHA 2767 MAPLEWOOD AVE MONTREAL QUE	B SC 1 RE 3 3014
JOYAL MICHEL 3581 DUBOCHER ST MTL 471 BROCK ST DRUMMONDVILLE QUE	B ENG CIV 5 AV 8 4806	KALIFON CECILE 2767 MAPLEWOOD AVE MONTREAL QUE	B A 4 RE 3 3014
JUCEVICIUS FELIKSAS 5039 ST DOMINIQUE ST MONTREAL QUE	M A 1 CR 1 0943	KALLENBACH ERNST 4860 CARLTON AVE MONTREAL QUE	M SC 2 RE 7 8729
JUE BRUCE CAMERON 314 GROSVENOR AVE WESTMOUNT QUE	M ENG 2 HU 4 4097	KALLOO HECTOR 1001 SHERBROOKE ST W MTL FREEMAN ST ST JOSEPH TRINIDAD W I	B SC 2
JUMABZ STEPHEN EUGEN 11814 GENERAL GIRAUD ST MONTREAL QUE	PH D 2	KALMAN GEORGE 3668 DUBOCHER ST APT 17 MONTREAL QUE	B SC 3 VI 9 0750
JUNAID AYODELE ABDUR R 3898 LAFONTAINE PARC MONTREAL QUE	B COM 3 LA 4 4103	KALMANABCH ELEANOR 5035 ROSLYN AVE MONTREAL QUE	B A 1 RE 8 8347

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KALMANOVITCH SYLVIA 5712 ST URBAIN ST MONTREAL QUE	B A 4 CR 6 8931	KASTNER MICHAEL MARTIN 3485 PEELE ST MTL 1014 CHAUMOND AVE QUEBEC CITY QUE	B A 4 VI 2 0882
KAM CHAN YIU 3419 HUTCHISON ST APT 4 MONTREAL QUE	B ENG CIV 3	KATADOTIS PETER ROBERT 6147 DUROCHER AVE MONTREAL 8 QUE	B COM 3 CR 9 6419
KAN WILSON YING KWAN 3575 SMUTER ST MTL 148 AUSTIN RD 2ND FL KOWLOON HONG KONG	B ENG 1	KATES RAYNA 5105 LACOMBE AVE MONTREAL QUE	B A 1 RE 3 4126
KANE HILDA 4960 BOURREY APT 308 MONTREAL QUE	2 TCHRS RE 9 1518	KATIS JAMES GEORGE 3466 MCTAVISH ST MTL 19 UNION ST THOMPSONVILLE CONN USA	MD CM 4 AV 8 9533
KANDAS MARIS 2 MAPLE AVE APT 18 STE ANNE DE BELLEVUE QUE	B SC M EC 3	KATO GABOR 5880 N D G AVE MONTREAL 28 QUE	B SC 2 HU 8 8363
KANGUR KERSTI 3439 OXFORD AVE MONTREAL QUE	B L S 1 HU 1 0812	KATZ ABRAHAM SIMON 5355 COOLBROOK AVE MONTREAL QUE	B SC 4
KANNER HOWARD 5521 CAMPDEN PL MONTREAL 26 QUE	B A 1 RE 3 2490	KATZ BERNARD DAVID 5611 BEAMINGSTON PL MONTREAL 26 QUE	B A 1 RE 8 8394
KANTROWITZ GEORGE 3018 BEDFORD RD MONTREAL QUE	M S W 1 RE 7 7961	KATZ DAVID HARRY 4506 LACOMBE AVE MONTREAL QUE	B ENG 1 RE 8 7718
KAPLAN LEONARD MARTIN 3820 CLARK ST MONTREAL QUE	B ENG CH 4 AV 8 5675	KATZ ESTHER ROSSI LAIRD HALL 4348 MADISON MONTREAL QUE	2 TCHRS
KAPLANSKY MARVIN 1436 CAROL CRES ST MARTIN QUE	B SC 1 MU 1 3815	KATZ HARRIET PAULA 6550 MACDONALD AVE HAMPSHIRE QUE	3 TCHRS HU 4 8164
KAPOROVSKY FLORENCE F STEWART HALL 5484 MOUNTAIN SIGHTS AVE MONTREAL QUE	B SC M EC 1	KATZ JOYCE EVELYN 4894 FULTON AVE MONTREAL QUE	B A 3 RE 8 8344
KAPUSTA RONALD 4615 MICHEL BIBAUD ST MONTREAL QUE	MD CM 4 RE 7 4829	KATZ MAX GEORGE 2030 FORT ST APT 3 MTL 74 TASCHEREAU ST W ROUYN QUE	B SC 4 WE 2 0344
KARAM JOSEPH GEORGE 2500 COTE ST CATHERINE MONTREAL 26 QUE	B A 3 RE 8 2784	KATZ SANDRA JUDY 4970 KENT AVE MONTREAL QUE	B COM 2 RE 7 7607
KARAYANNIDES DEMETRE 8305 BLOOMFIELD AVE APT 9 MONTREAL 15 QUE	D D S 3 CR 4 4522	KAUFMAN ISRAEL HERSH 6875 FIELDING AVE APT 21 MONTREAL QUE	B CL 4 HU 8 1512
KARPISHKA ROMAN BOHDAN 823 WILLISBORO AVE VERDUN QUE	B A 2 PO 9 3035	KAUFMAN LEON 1640 VAN HORNE AVE APT 2 OUTREMONT QUE	MD CM 1 CR 2 4489
KARPMAN MARSHA 19 ST PIERRE ST MTL 974 WILDER AVE OUTREMONT QUE	3 TCHRS	KAUFMANN ROBERT JOHN 456 PINE AVE W MTL 88 MARCUS AVE NEW HYDE PARK N Y USA	B A 1 VI 6 0284
KARPOWICZ MARY B 2671 GASCON AVE MONTREAL QUE	B SC 4 LA 5 6486	KAUSER NICOLAS 5108 COTE ST LUC APT 14 48 CALLE 7 LOS PALOS GRANDES CARACAS VENEZUELA	B ENG 2 HU 8 8394
KASAK HELGI 4304 OXFORD AVE MONTREAL QUE	B SC 4 HU 4 8845	KAUSER STEVEN J 5108 COTE ST LUC APT 14 48 CALLE 7 LOS PALOS GRANDES CARACAS VENEZUELA	B COM 2 HU 8 8394
KASAK LIIVI OIE 4304 OXFORD AVE MONTREAL QUE	B SC 1 HU 4 8845	KAVALERSKY ERIC ALEC 5416 WAVERLEY MONTREAL QUE	B ENG 3 CR 3 2009
KASHTAN JUDITH 750 QUERBEC AVE OUTREMONT QUE	B SC 1 CR 7 2650	KAVANAGH LINDA ANNE MACDONALD COLLEGE 29 SPOOR ST FARNHAM QUE	2 TCHRS
KASIRER PATRICIA J 460 GROSVENOR AVE MONTREAL QUE	PARTIAL WE 2 1210	KAVANAGH THOMAS MURRAY 3450 DUROCHER ST APT 23 MONTREAL QUE	PH D 4 VI 9 3186
KASPER KATHLEEN M 2239 GILGOURD AVE MONTREAL QUE	MUS B 3 HU 8 5980	KAVCIC FRANK MICHAEL 3708 ST DOMINIQUE ST MONTREAL QUE	PH D 4 VI 2 3545
KASTNER LORNE N 5170 HAMPTON AVE MONTREAL 29 QUE	B SC 1 HU 1 2791		

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KAWAJA MICHAEL HAJEED 3400 LINTON AVE APT 107 BASSETTERE ST KITTS WEST INDIES	B SC 4 RE 7 7757	KEITH OLIVE ENID 1227 SHERBROOKE ST W APT 63 MTL HAVELOCK N B	GRAD DIP AV 8 5608
KAWAJA NASEH RAMEZ PAUL 3400 LINTON AVE APT 107 MONTREAL QUE	B COM 4 RE 7 7757	KEITH PETER GRANT 5551 COTE DES NEIGES APT 6 MTL ARROWHEAD RANCH KEVISVILLE ALBERTA	B ENG MCH 5 RE 8 1930
KAWOZAK MICHAEL 7484 BIRNAM ST MONTREAL 15 QUE	B ENG 8 CR 4 9027	KELDER ROBERT JAN 15 EVERGREEN DR SEACONSFIELD QUE	B ENG EL 3 OX 5 3785
KAYE LESLIE L 1463 BISHOP ST APT C2 68 HENRY ST TRENTON ONT	B A 4 VI 5 1822	KELSON PHILIP 6315 DE VIMY AVE MONTREAL QUE	M A 1 RE 8 5928
KAYE STUART MORTIMER 1463 BISHOP ST APT C2 68 HENRY ST TRENTON ONT	B SC 2 VI 5 1822	KELL PAMELA A LAIRD HALL 4515 HINGSTON AVE MONTREAL 28 QUE	B SC M EC 2
KAYSER EDMUND PROSPER M 3506 UNIVERSITY ST MTL 97 WELAND AVE ST CATHARINES ONT	B SC 3 VI 4 0624	KELLER LINDA MARCIA MACDONALD COLLEGE 4894 MACKENZIE AVE MONTREAL QUE	2 TCHRS 1
KAZAKS CLAUDE KLAVS 222 REDFERN AVE APT 34 WESTMOUNT QUE	B SC 1 WE 3 1352	KELLER RHONA JOAN 5864 DECELLES PL APT 16 MONTREAL QUE	MD CM 3 RE 3 2955
KAZAKS PETERIS ALEXANDRIE 222 REDFERN AVE APT 34 WESTMOUNT QUE	B ENG PHY 3 WE 3 1352	KELLEY JOHN BOWEN 2023 MANSFIELD ST MTL 2 WESTWOOD RD SOMERVILLE 43 MASS USA	B ENG 2
KAZI SADAT ISLAM 625 STE CROIX BLVD VILLE ST LAURENT QUE	M A 2 RI 7 2444	KELLMAN MARTYN GARDEN 3431 DRUMMOND ST MTL RICHMOND TERRACE CASCADE TRINIDAD T W I	B SC 2 VI 9 0243
KAZLAUSKAS ALGIRDAS M 6579A 29TH AVE MONTREAL 36 QUE	B ENG 1 RA 7 2752	KELNOR JOANIE F 51 PERRAULT STE ANNE DE BELLEVUE QUE 694 GROSVENOR AVE MONTREAL QUE	2 TCHRS 1
KEAN WILMORE MILAS 3445 PEEL ST MTL 148 WEST VALLEY RD CORNER BROOK NFD	B SC 1 VI 5 9462	KELLY PAUL BRINDAN JR 6300 LENNOX APT 308 MTL 1100 UNION ST SAN FRANCISCO CALIF USA	MD CM 3 RE 9 1899
KEARE NANCY CELIA ROYAL VICTORIA COLLEGE 1270 LINDEN AVE HIGHLAND PARK ILL USA	B A 4 VI 2 0477	KELLY JOAN CAROLYN 5235 GRAND BLVD MONTREAL 29 QUE	B A 2 HU 6 4407
KEARNS FRANK J 112 HERMISTON AVE PTE CLAIRE QUE	B ENG MCH 4 OX 7 1754	KELM FREIDA IRENE 418 PINE AVE W APT 23 MTL 1560 ALEXANDRA ST APT 12 REGINA SASK	B N 2 AV 8 0867
KEAYS MARION ALDINE 115 OAK RIDGE DR BAIE D'URFEE QUE	B SC M EC 2	KELTON JACK EDWARD 5608 DUDMAINE ST APT 301 MONTREAL 9 QUE	M B D DIP FE 4 1236
KEDDIE BRENDA RAE 783 UPPER LANSDOWNE AVE WESTMOUNT QUE	B SC 4 HU 1 2650	KEMBALL PETER RITCHIE 4191 HINGSTON AVE MONTREAL QUE	B ENG MCH 3
KEDDY GEORGE WILLIAM 3473 UNIVERSITY ST MTL 113 CARLETON ST SAINT JOHN N B	B ENG 1 VI 9 1791	KEMP ELESPETH ANNE 455 SEACONSFIELD BLVD BEAUREPAIRE QUE	B A 1 OX 5 2237
KEELER WINSTON WOODARD 12 EAST COTTAGES MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	PARTIAL	KEMP SALLY E STEWART HALL 185 BEDBROOK AVE MONTREAL WEST QUE	P E DIP 2
KEEN ROBERT GEORGE 5885 BANNANTYNE AVE VERDUN QUE	B ENG 1 PO 8 2670	KENG RO SIU LING BOX 141 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	M SC 1
KEENAN DONALD J 1044 CONDE ST DUVERNAY QUE	B ENG CIV 4	KENNEDY FRANCES ELAINE 3417 LACOMBE AVE MONTREAL 26 QUE	B SC AGR 1 RE 8 2018
KEENE HEATHER MACDONALD COLLEGE BOLTON PASS RD KNOWLTON QUE	3 TCHRS	KENNEDY HENRY ALBERT 6653 19TH AVE MONTREAL 36 QUE	B COM 4 RA 2 4476
KEENE MARIN MCLAUGHLIN ROYAL VICTORIA COLLEGE 47 ORMOND ST BROCKVILLE ONT	B SC P OT 3	KENNEDY IAN P T 1500 STANLEY ST MTL 319 RUSSELL HILL RD TORONTO ONT	B ENG 1
KEIL LOUIS DOUGLAS 1115 POIRIER ST VILLE ST LAURENT QUE	B ENG CIV 3 RI 7 4874		

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KENNEDY JAMES ALLAN A 42 RUE DE GALAIS LAVAL DES RAPIDES QUE	B SC 1 MU 1 0340	KESKINER ALI QUEEN MARY VETERANS HOSP 4565 QUEEN MARY RD MONTREAL QUE	MED DIPL 2
KENNEDY JAMES ROSS 78 DOBIE AVE TOWN OF MT ROYAL QUE	B SC 2 RE 3 6130	KESSEL HECTOR JOSEPH 485 SHERBROOKE ST W MTL 144 HADDENFIELD RD CLIFTON N J USA	B ENG CH 5 VI 5 0734
KENNEDY LESLIE JOY 1509 SHERBROOKE ST W APT 39 MONTREAL QUE	B A 3 WE 3 2061	KESSLER LAWRENCE IRVING 4475 GRAND BLVD MONTREAL 28 QUE	B ENG EL 4
KENNEDY NANCY G 3638 DUROCHER ST APT 3 119 WILLIAM ST N LINDSAY ONT	GRAD DIP AV 8 6466	KESSLER PAUL E 1669 SHERBROOKE ST W MONTREAL QUE	B ENG EL 3 WE 5 0224
KENNY DAVID PATRICK 1947 RUE ST LUC APT 3 205 HUDSON AVE OTTAWA ONT	B ENG MCH 4	KESNER NORMAN SHELDON 4875 MIVA RD MONTREAL QUE	B A 1 MU 1 7948
KENNY ESTHER LYNNE ROYAL VICTORIA COLLEGE 143 MOUNTAIN AVE S MONTCLAIR N J USA	B A 3 VI 2 0833	KETCHESON GRANT A BRITAIN HALL R R 1 MADOC ONT	B SC AGR 2
KENNY JOHN WADE 8025 UPPER LACHINE RD MONTREAL WEST QUE	B SC 1 MU 6 5661	KETTER ANNA MARIA 3546 LORNE AVE APT C MONTREAL QUE	M A 1 VI 4 5530
KENNY LORNE MILFORD 16 SUNNYSIDE AVE PTE CLAIRE QUE	PH D 2 OX 5 4154	KEVLAM ANDREW KEVILLE 58 QUEEN S RD VALOIS QUE	B L B 1 OX 7 3116
KENNY MICHAEL MARTIN MACDONALD COLLEGE R R 1 ORLEANS ONT	B SC AGR 1	KEYMER SANDRA HOMFRAY M 5235 COTE ST LUC RD APT 27 MONTREAL QUE	B A 4 MU 8 6181
KENNY WILLIAM FRANCIS 3544 JEANNE MANCE ST MTL 7200 RIDGE BLVD BROOKLYN 9 N Y USA	MD CM 3 VI 9 9090	KEYTON PAUL AYLIFFE 4575 GRAND BLVD APT 16 MONTREAL QUE	B A 3 MU 6 5261
KENT DARREL BROCK 258 SHERBROOKE ST MTL 298 CIVIL DEF COLL ARNPRIOR ONT	B ENG 1 VI 9 0714	KHAN ABDULLAH YUSUF 3630 DUROCHER ST APT 22 HILL TOP DR CHAMPS FLEURS TRINIDAD S W I	D B S 4 VI 4 8047
KENT JUDITH HOPE 24 EDGEHILL RD WESTMOUNT QUE	3 TCHRS MU 9 8193	KHAN ABU TALIB 3621A PARK AVE APT 2 MTL 80 WOODFORD ST CUREPE TRINIDAD S W I	B SC 1
KENYON JOHN 24 LATOUR R R 1 CO LAVAL ST DOROTHEE QUE	PH D 2	KHAN FAREED AHMAD 1001 SHERBROOKE ST W MTL 15 EASTERN MAIN RD SAN JUAN TRINIDAD W I	B A 4 VI 4 2122
KEOGH RICHARD KEVIN ROYAL VICTORIA HOSPITAL 936 CHESTNUT ST NEW WESTMINSTER B C	MED DIPL 3	KHAN IMRAN 3310 MAPLEWOOD AVE APT 17 MONTREAL QUE	MD CM 3 RE 1 6507
KERNER ELAINE 6875 CIRCLE RD MONTREAL QUE	3 TCHRS MU 6 4719	KHAN MOHAMMAD ANWAR 3594 ST FAMILLE ST MONTREAL QUE	PH D 1
KERR COLIN CHARLES 3563 UNIVERSITY ST MTL CORSO MAZZINI 20 CAMOGI GENOVA ITALY	B SC 3 VI 4 5776	KHAN MOHAMMED AFZAL 3460 DUROCHER ST APT 8 HILLTOP DR CHAMPS FLEUR ST JOSEPH TRINIDAD W I	B SC 1
KERR JOHN WINSTON 23 PERRAULT AVE STE ANNE DE BELLEVUE QUE	B T M 2	KHAN MOHAMED SALIM BRITTAIN HALL ROSE HALL VILLAGE CORENTYNE BERSICE BR GUIANA	B SC AGR 1
KERSHMAN NAOMI PEARL 743 WILDER AVE MONTREAL QUE	B SC 2 OR 9 0526	KHAN ZAFAR 600 SHERBROOKE ST W MTL 5821 WESTLUKE AVE MONTREAL 29 QUE	B COM 3 AV 8 8246
KERTESZ GABOR 5972 MCNEANE AVE MONTREAL QUE	B SC 1 RE 3 4030	KHARE HARISH CHANDRA PHYSICAL SCIENCES CENTRE MC GILL UNIVERSITY MONTREAL QUE	PH D 4
KERTESZ JANOS PETER 3201 FOREST HILL AVE MTL 117 HARBORD ST TORONTO ONT	B SC 2 RE 1 0882	KHAWAJA NAZIR AHMED 3469 HUTCHISON ST MTL 584 JINNAH COLONY LYALLPUR PAKISTAN	M SC 1
KESSE IRVING MORRIS 4159 CITY HALL AVE MONTREAL QUE	B ENG CH 4 VI 5 6946	KHAZZAM DAVID E 3101 GEDAR AVE MONTREAL QUE	B ENG 2 WE 3 3457

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KHAZZAM DJEMIL EZRA S 3101 CEDAR AVE MONTREAL QUE	B A 1 WE 3 3451	KINGSTON DIANA MARY ROYAL VICTORIA COLLEGE BOX 165 BOURLAMAQUE QUE	B A 3 VI 2 0634
KHAZZAM SASS 3455 COTE DES NEIGES RD APT 606 MONTREAL QUE	B COM 4 WE 3 3457	KINGSTONE EDDIE 5050 WALKLEY AVE APT 5 MONTREAL QUE	MED DIPL 2 HU 9 4833
KHO THWAN SIET 3647 UNIVERSITY ST MONTREAL QUE	M ENG 2 VI 9 2806	KINLEY DONALD L 3594A STE FAMILLE ST MTL 116 ASHLAND RD SUMMIT NEW JERSEY USA	MD CM 1 AV 8 8482
KHOW BOEN HENG C O MCGILL UNIVERSITY CHEMISTRY DEPT MONTREAL QUE	PH D 2	KINLOCK ALBERT K DOUGLAS HALL 2715 82ND AVE S E CALGARY ALTA	B SC 2 VI 5 1678
KIBRICK ARNOLD JACOB 4352 DE LA PELTRIE MONTREAL QUE	B ENG EL 4 RE 3 5693	KINSMAN STEPHEN ALFRED M 472 COTE ST ANTOINE RD WESTMOUNT QUE	B A 2 WE 7 1184
KIERANS THOMAS EDWARD 5631 QUEEN MARY RD HAMPSHIRE QUE	B A 3 HU 6 3129	KIOVSKY MICHAEL 445 BARTON AVE TOWN OF MT ROYAL QUE	B ENG MCH 5 RE 8 3970
KIFLEQZI HAILU 443 STATION B MONTREAL QUE	M A 2 AV 8 1966	KIPLING ARLIN LLOYD 3609 UNIVERSITY ST MTL BOX 415 MELFORT SASK	M SC 1 AV 8 6307
KILLAM JR DONALD A 208 LAZARD AVE MONTREAL 16 QUE	B SC 2 RE 8 9146	KIRBY JOHN CHARLES 3520 UNIVERSITY ST MTL 291 35TH AVE LAKEHURST QUE	PH D 3
KILLEN DESMOND G WILSON HALL C O WESTERN UNION MONTREAL AZORES	B ENG COM 5 VI 4 0624	KIRBY ROGER P 539 PINE AVE W MTL 2 CLEVELAND RD PLYMOUTH DEVON ENGLAND	M SC 2 VI 4 6311
KILPATRICK HEATHER RUTH V LAIRD HALL 1116 6TH AVE VERDUN QUE	B TCHRS 1	KIRK ROBERT CHANDLER 1380 SHERWOOD CRES TOWN OF MT ROYAL QUE	B COM 3 RE 8 7463
KIMMEL LESSY 3455 LINTON AVE APT 206 MONTREAL QUE	MUS B 4	KIRKBY PETER 3480 MCTAVISH ST MTL 51 PORPHY THORN LANE PRESTWICH MANCHESTER ENGLAND	M SC 1 VI 9 0141
KIMPTON OLIVIA CATHERINE 376 REDFERN AVE APT 14 WESTMOUNT QUE	B A 3 WE 2 6382	KIRKHAM LAWRENCE A H 1090 VANIER ST VILLE ST LAURENT QUE	B SC 2 RI 4 5048
KIMURA DOREEN 3433 DUROCHER ST APT 108 MONTREAL 18 QUE	PH D 4 VI 4 4335	KIRKIS PETER GEORGE 1615 LINCOLN AVE APT 10 10 MACKENZIE KING ST ATHENS GREECE	B ENG MCH 4 WE 5 7922
KINDY DAGMAR 6793 11TH AVE MONTREAL 36 QUE	MD CM 4 RA 7 0857	KIRKPATRICK THOMAS C 2101 UNIVERSITY ST APT 17 MONTREAL QUE	B COM 1 AV 8 3891
KING DONNA MARY 49 FRANKLIN AVE TOWN OF MT ROYAL QUE	B A 1 RE 3 3803	KIRSCH IRVING MURRAY 4660 KENT AVE MONTREAL QUE	B COM 4 RE 3 6330
KING JOAN PEARL 699 BIRCH AVE VERDUN QUE	B A 1 PO 6 6404	KIRSCHBERG GORDON JOSEPH 4742 LACOMBE AVE MONTREAL QUE	B SC 1 RE 8 8974
KING KATHERINE S 557 BERWICK AVE TOWN OF MT ROYAL QUE	B SC P OT 1 RE 3 8104	KIRSCHENBAUM ELEANOR 5802 WILBERTON AVE MONTREAL 26 QUE	B A 1 RE 8 8157
KING MICHAEL FRANCIS ST MARY S HOSPITAL 123 CHESTNUT AVE PTE CLAIRE QUE	MD CM 4	KIRSCHENBAUM PRYMETA 5751 DAVIES AVE COTE ST LUC QUE	3 TCHRS HU 6 3763
KING PETER CHARLES 3485 MCTAVISH ST MTL 51A HOLLAND PK LONDON W 11 ENGLAND	B ENG 2 VI 9 0141	KIRWAN LEO DUNCAN 641 MILTON ST MONTREAL QUE	M SC 2 AV 8 3447
KING PETER SAMUEL A BRITAIN HALL 2301 MELROSE AVE MONTREAL QUE	3 TCHRS 1	KISSER STEPHEN DAVID 6307 DE VINY AVE MONTREAL QUE	B COM 2 RE 8 6477
KING RICHARD MICHAEL 2453 MAPLEWOOD AVE MONTREAL QUE	B ENG CIV 4 RE 9 8849	KISH MARY MACDONALD COLLEGE 1950 TUPPER ST MONTREAL QUE	3 TCHRS 1
KING ROBINSON SAMUEL P 3304 BUTLER ST MONTREAL QUE	B ENG 2 VI 4 4587	KISIL FRED THEODORE 7970 CHAMPAGNEUR AVE MONTREAL 15 QUE	B SC 1 CR 1 9513
KINGHORN CHARLES P 4820 ROSLYN AVE MONTREAL QUE	B A 2 RE 8 2498		

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NAME ADDRESS	COURSE & YEAR TEL. NO.	NAME ADDRESS	COURSE & YEAR TEL. NO.
KIGILEVSKY ROBERT 5916 MACDONALD AVE HAMPSTEAD QUE	MD CM 2 HU 6 3379	KLEIN RANDI MACDONALD COLLEGE 5753 SMART AVE COTE ST LUC QUE	B SC MEC 1
KITEALA JOHN 3510 ST GERMAIN ST APT 2 MONTREAL 4 QUE	MD CM 3 LA 5 5103	KLEIN ROBERT HENRY 4847 LACOMBE AVE MONTREAL QUE	B COM 1 RE 7 6015
KITTERMAN JOSEPH A 3655 OKENDEN AVE MTL 855 CEDAR ST ALAMEDA CALIF USA	MD CM 2 VI 9 3014	KLEIN RONA 2152 NOEL AVE VILLE ST LAURENT QUE	B A 4 RI 7 8946
KIVENKO HELEN FRAYDA 4924 LACOMBE AVE MONTREAL QUE	B A 2 RE 7 7739	KLEIN SANDOR JACK 236 QUERBES AVE OUTREMONT QUE	B A 2 CR 2 1885
KIVENKO JACK MARVEN 5716 QUEEN MARY RD MONTREAL QUE	B COM 3 HU 1 8340	KLEINBERG DAVID MARTIN 4414 HINGSTON AVE MONTREAL 28 QUE	B A 2 HU 1 3991
KIVENKO JOHN ALBERT 6625 MACDONALD AVE MONTREAL QUE	B ENG 1 RE 7 7321	KLEINER IRVING STEVE 5751 NORTHMOUNT AVE MONTREAL 29 QUE	B A 2 RE 9 5711
KIVENKO KENNETH 5612 CLARK ST MONTREAL QUE	B ENG 1 CR 6 9273	KLEINER ISRAEL 1385 BERNARD W APT 9 MONTREAL QUE	M SC 1 CR 1 2262
KIVENKO STANLEY IRVING 5716 QUEEN MARY RD MONTREAL QUE	B COM 1 HU 1 8340	KLEINIKKINK GERRY JOHN BRITTAIN HALL MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	B SC AGR 4
KIWITT GABRIELLE EMILY 997 CHERRIER ILE BIZARD QUE	PARTIAL WE 3 7381	KLEINMAN EZRA 4548 HARVARD AVE MONTREAL QUE	B A 2 HU 6 9912
KIZELL DOROTHY ROYAL VICTORIA COLLEGE 295 FIRST AVE OTTAWA ONT	B A 2 VI 9 0120	KLEMBIA JERRY 354 51ST AVE LACHINE QUE	B ED 2 ME 4 1748
KIZELL RACHEL LEAH ROYAL VICTORIA COLLEGE 295 FIRST AVE OTTAWA ONT	B A 1 VI 9 0993	KLEMENSBERG FRED A 5970 MCSHANE AVE MONTREAL 26 QUE	B SC 4 RE 7 7643
KJERULF HEYN VAN KERVEL F DOUGLAS HALL P O BOX 42 NEWCASTLE N B	B ENG 2 B ENG 2	KLEPPER LAWRENCE MICHAEL 6610 WESTBURY AVE MONTREAL QUE	B SC 1 RE 8 5721
KLAM JACK MARVIN 4372 CLARK ST MONTREAL QUE	B ENG 1 VI 4 5886	KLEVORICK ALAN STANLEY 475 PINE AVE W MTL 8375 WOODHAVEN BLVD WOODHAVEN 21 N Y USA	B SC 4 VI 4 4270
KLABBERO SHEILA 3841 ST KEVIN ST MONTREAL QUE	B A 3 RE 3 6992	KLIQER GEORGE IRWIN 4645 KENT AVE MONTREAL QUE	B A 3 RE 3 3997
KLAU WOLFGANG FRIEDRICH 3436 DUROCHER ST APT 12 DORTMUND BRACKEL IN DEN ERLN 33 GERMANY	B SC 2 VI 9 9790	KLIQER BOUTCHETTE CLAIRE 4742 BOUCHETTE MONTREAL QUE	H S D DIP RE 1 0452
KLAUSENER BERNHARD ROLF R R 1 ST HUBERT QUE	M S W 2 OR 6 1226	KLINEBERG JUDITH ANNE 4414 HINGSTON AVE MONTREAL 28 QUE	B A 4 HU 1 3991
KLEIN AARON A 5500 CLANRANALD AVE MONTREAL QUE	B ENG MCH 3 RE 8 9358	KLING CHARLES JOSEPH 1469 ELIZARETH BLVD ST MARTIN QUE	B SC 1 MU 1 7685
KLEIN COLMAN 4885 COTE STE CATHERINE APT 15 MONTREAL QUE	B ARCH 5 RE 1 3474	KMEC JOSEPH 3484 PEEL ST MTL 3885 HENRI JULIEN AVE MONTREAL QUE	B ENG MCH 4 VI 4 5922
KLEIN CORNELIS 3539 JEANNE MANCE ST MONTREAL QUE	M SC 2 AV 8 6261	KNIQHT EDGAR GRAYSON 133 YORK RD BEAUREPAIRE QUE	M A 1 OX 5 2046
KLEIN GEORGE 5770 HUTCHISON ST MONTREAL QUE	B SC 2 CR 7 8736	KNIQHT HENRY CHALMER 11 CEDAR AVE PTE CLAIRE QUE	M A 1 OX 5 4491
KLEIN JUDITH NOEMI 811 DAVAR AVE APT 8 OUTREMONT QUE	B SC 3	KNIQHT KATHERINE J STEWART HALL 11 CEDAR AVE PTE CLAIRE QUE	P E DIP 2
KLEIN LLOYD LIONEL 855 ALEXIS NIMON VILLE ST LAURENT QUE	B SC 1 RE 3 1979	KNIQHT LAWRENCE LARRY 1917 BARCLAY AVE MONTREAL QUE	B SC 1 RE 8 0692
KLEIN MITCHELL HARRIS 2152 NOEL AVE VILLE ST LAURENT QUE	B CL 3 RI 7 8946	KNIQHT MARGARET K ROYAL VICTORIA COLLEGE R R 2 AYER S CLIFF QUE	B SC P OT 1 VI 2 0829

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NAME ADDRESS	COURSE & YEAR TEL. NO.	NAME ADDRESS	COURSE & YEAR TEL. NO.
KNIGHT RUSSELL MACARTHUR WILSON HALL 77A BOWWOOD RD GRAND FALLS NFD	B ENG 1	KOMAROMI GABOR 6705 DE VIMY AVE MONTREAL QUE	M SC 1
KNIPS BARBARA M 2505 MAPLEWOOD AVE APT 307 MONTREAL QUE	M S W RE 9 2030	KON JULIAN 5218 JEANNE MANCE ST MONTREAL QUE	B SC 2 CR 6 2025
KNUDSEN DITLEF ALISON 1410 STANLEY ST MTL 310 GREENLEAF AVE WILMETTE ILLINOIS USA	B ARCH VI 9 1321	KONANEC GERALD MAX 6550 20TH AVE MONTREAL 36 QUE	B SC 2 RA 8 0254
KNOWLES KENNETH WESLEY WILSON HALL P O BOX 862 NASSAU N P SAHAMA	B SC 2 VI 4 0624	KONCEVICH PAUL MACDONALD COLLEGE 635 CENTRAL AVE VAL D OR QUE	H S D DIP
KNOX ROBERT HUGH 4325 MARLETTE AVE MONTREAL QUE	B A 3 HU 8 5474	KOND LIIVI STEWART HALL R R 1 VINELAND STA ONT	B SC AGR 4
KNOX STERLING EDWARD MACDONALD COLLEGE SHAWVILLE QUE	B SC AGR 1	KONECHY MIRKO 5410 ST IGNATIUS AVE MTL P O BOX 532 RAWDON QUE	B ENG MCH 4 HU 4 6758
KNYSTAUTAS ROMUALD GEBRUE 35 STRATHYRE VILLE LASALLE QUE	B ENG MCH 5 DO 6 0840	KONGO HELE MALL 588 WESTLUKE AVE MONTREAL 29 QUE	B A 3 HU 4 0685
KOBY NORMA LINDA 46 PERRAULT STE ANNE DE BELLEVUE QUE 5601 ALPINE AVE COTE ST LUC QUE	2 TCHRS	KONGSHAVN PATRICIA ADA L 1 ELLERDALE RD APT 12 HAMPSTEAD QUE	M SC 2 HU 6 4724
KOCH CHRISTINE RUTH 4369 MONTROSE AVE WESTMOUNT QUE	B A 2 WE 2 8893	KONKIN NAIDA N ROYAL VICTORIA COLLEGE BOX 452 KAMSACK SASK	B A 3 VI 2 0265
KOERNER RICHARD 5739 DARLINGTON AVE APT 6 MONTREAL QUE	B ENG EL 4 RE 1 5848	KONNIST ELMAR HEINRICH 2660 QOYER ST APT 10 MONTREAL QUE	B ARCH 4 RE 8 1829
KOGAN FELICIA S LAIRD HALL 394 COTE ST CATHERINE RD OUTREMONT QUE	2 TCHRS	KONO MASAKIYO 3512 SHUTER ST MONTREAL QUE	PH D 4
KOH TEOW YAN 2015 MCILL COLLEGE AVE 500C EAST COAST RD SINGAPORE 16	B SC 3	KONSTATINOFF MYRA 180 COTE ST CATHERINE RD MONTREAL QUE	B A 2 CR 2 7555
KOISTE KARI J 802 LUSIGNAN ST MONTREAL 3 QUE	B ENG 2 WE 5 0332	KONYK LEO N 475 PINE AVE W MTL 1026 LANSDOWNE AVE WINNIPEG 4 MAN	D D S 2 VI 4 4270
KOLADA VERA STEWART HALL 275 GEORGE V ST DORVAL QUE	B SC H EC 3	KOOIMAN HENDRIK 1433 STANLEY ST APT 12A MONTREAL QUE	B CL 4 AV 8 0428
KOLAKOFKY DANIEL 4159 CLARK ST MONTREAL 18 QUE	B SC 1 VI 9 7821	KOOIMAN VINCENT WILLEM 1433 STANLEY ST APT 12A MONTREAL QUE	B CL 4 AV 8 0428
KOLBER STANLEY LYON 74 COTE ST CATHERINE RD OUTREMONT QUE	B SC 4 CR 1 5355	KORENBERG LELA CAROL 626 ALOONQUIN AVE MONTREAL 16 QUE	B SC 1 RE 8 7261
KOLLAR CATHERINE 3639 STE FAMILLE ST APT 18 MONTREAL QUE	B A 4 VI 5 8851	KORENTAYER KENNETH 104 HEBERT ST VILLE ST LAURENT QUE	B SC 2 RI 7 8631
KOLODNY LARRY 6061 WILBERTON AVE MONTREAL QUE	B CL 2 RE 7 1894	KORMAN HENRY PHILIP 5238 ESPLANADE AVE MONTREAL QUE	B ENG MCH 4 CR 4 2801
KOLP MIRSH B 3485 MCTAVISH ST MTL 18 SALISBURY RD BROOKLINE 46 MASS USA	B ENG 2	KORN MORTON 523 PINE AVE W APT 202 MONTREAL QUE	MD CM 3 VI 5 5787
KOMALARAJUN MORARITHI 3459 DRUMMOND ST MTL 1 N SRIFAH LANE SAHOLYOTHIM RD BANGKOK THAILAND	B COM 2 VI 4 0653	KORN TADEK 2196 NOEL ST VILLE ST LAURENT QUE	B SC 2 RI 7 2770
KOMALARAJUN PAYOON 3459 DRUMMOND ST APT 24 MTL 1 N SOI SRI FAN SAHOLYOTHIM RD BANGKOK THAILAND	B N 3 VI 4 0653	KORNACHVIC PAUL E 793 12TH AVE LACHINE QUE	B ENG 1 ME 7 1995
		KORNACK LEONARD A BRITTAIN HALL 5147 BANNANTYNE AVE VERDUN QUE	P E DIP 2

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KORNBLUTH ELEANOR LEE 33 ST GEORGE ST STE ANNE DE BELLEVUE QUE 821 DOLLARD AVE OUTREMONT QUE	2 TCHRS	KRAKOWER MARCIA GRACE 19 GARDEN CITY STE ANNE DE BELLEVUE QUE 2794 WILLOWDALE AVE MONTREAL QUE	3 TCHRS
KORNBLUTH IRWIN 821 DOLLARD AVE OUTREMONT QUE	MD CM CR 2 5617	KRAMARZ MALINA 5323 LUCY PL MONTREAL QUE	D D S 2 RE 3 5980
KORNBLUTH JOYCE CORNELIA 719 UPPER BELMONT AVE WESTMOUNT QUE	B A HU 1 7988	KRAMER DAVID ALLAN 5062 GLENCAIRN AVE MONTREAL QUE	B SC 1 HU 6 3303
KORNBLUTH RALPH 975 HARTLAND AVE OUTREMONT QUE	D D S EE 3 2697	KRAMER DONALD R 3482 MCTAVISH ST MTL LANGENBURG SASK	D D S 1 VI 9 5965
KOROL ROMAN 745 CHAMPAONEUR AVE OUTREMONT QUE	B ENG EL CR 9 9714	KRAMER ETHEL 4526 DRAPER AVE MONTREAL QUE	B SC P OT 3 HU 4 6913
KOROSS BEBALD 4850 DES COUTRAI MTL 1510 LIBERTY AVE MILLSIDE 5 NEW JERSEY USA	D D S 1	KRASA LESLIE 101 ST LOUIS AVE DORVAL QUE	M S D DIP ME 1 3189
KORSOWER ANN 4670 VEZINA MONTREAL QUE	B L S 1 RE 1 6233	KRASNOW LOUISE KALA 4860 LACOMBE AVE MONTREAL QUE	B SC 1 RE 8 0348
KOSTMAN JUDITH BETH 644 MURRAY HILL AVE WESTMOUNT QUE	B A 1 HU 6 2068	KRASNOW MARVIN LARRY 4980 CIRCLE RD MONTREAL QUE	B ENG MCH 4 HU 6 1904
KOTRLY ALENA MARIE 4676 VICTORIA AVE MONTREAL 29 QUE	B A 1 HU 4 9881	KRAULIS ILLZE 4972 DOLLARD ST PIERREFONDS QUE	B SC 3 HU 4 2758
KOVACS ALEXANDRA ROSE ROYAL VICTORIA COLLEGE APARTADO 1107 CIUDAD TRUJILLO DOMINICAN REPUBLIC	B A 4 VI 2 0495	KRAVETZ AVIVA 3480 BEDFORD RD MONTREAL QUE	B A 2 RE 8 6664
KOVACS JOSEPH 3469 SHUTER ST MONTREAL QUE	B ENG 2 VI 4 7335	KRAVITZ HARRIET LEE 1 BROWN ST STE ANNE DE BELLEVUE QUE 2165 COLLEGE ST VILLE ST LAURENT QUE	3 TCHRS
KOVACS MARIA 1152 LAJOIE AVE MONTREAL QUE	B SC 2 CR 6 1591	KRAYER KRAUSS ERICH A 4620 ST KEVIN AVE APT 12 MONTREAL 26 QUE	B ENG 2 RE 3 6580
KOVACS REZSO L 1091 MACKAY ST APT 4 MONTREAL QUE	M SC 2 UN 1 6408	KRCMERY GEORGE 6755 WILBERTON AVE MONTREAL QUE	B ENG 2 RE 3 4771
KOVALESKI JOYO 1655 LINCOLN AVE APT 23 MONTREAL QUE	PH D 3 WE 5 3762	KREINDLER SIMON DOUGLAS HALL P O BOX 264 BARBADOS B W I	B SC 3 VI 5 4851
KOVECES FRANK MACDONALD COLLEGE 3210 MAPLEWOOD AVE APT 6 MONTREAL QUE	B SC AGR 1	KREMEL OSCAR WILLIAM MACDONALD COLLEGE HEMMINGFORD QUE	B SC AGR 1
KOVECES GEORGE 3445 PEEL ST MONTREAL QUE	B ENG MCH 3 VI 5 9462	KREUSER ADOLF PETER BRITAIN HALL 29 BRUNNEN ST HONNET RM GERMANY	3 TCHRS
KOWALUK ALEXANDER BOHDAN 5232 GLOBERT ST MONTREAL 29 QUE	M ARCH 1 HU 8 3666	KRINDLE MONTY 734 QUERBES AVE MONTREAL 8 QUE	B SC 1 CR 9 1961
KOYANA NOREEN A 6781 12TH AVE MONTREAL 36 QUE	B SC P OT 1 RA 1 9638	KRISHANKA AARON 4138 CLARK ST MONTREAL QUE	B A 2 AV 8 3857
KOZAK JOHN JOSEPH 4520 SHERBROOKE ST LACHINE 11 GORDON ST GLACE BAY N S	M SC 1	KRISTOF FRANCIS E QUEEN MARY VETERANS HOSP 4565 QUEEN MARY RD MONTREAL QUE	MED DIPL 2
KOZIEROK LEON 4577 HUTCHISON ST MONTREAL QUE	B ENG 1 CR 6 0454	KROMP DIANE FELICIA 3161 APPLETON AVE MONTREAL QUE	B A 3 RE 3 4144
KOZLOW EDWARD JOHN 764 MARIN AVE MONTREAL 30 QUE	B SC 2 WE 5 2853	KRUCKER EDWARD A 10 GREEN LANE BARAGUAY QUE	3 TCHRS RI 7 5791
KRAKOWER EARL 832 DUNLOP AVE OUTREMONT QUE	B SC 4 RE 8 0956	KRUMAJA IRENE HELEN 4233 ESPANADE AVE MONTREAL QUE	B ENG 1 AV 8 5808
		KRUPEY JOHN 8645 RAUDOT ST MONTREAL QUE	PARTIAL PO 6 0735

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KRUPKA DANNY CHARLES V M 3508 D'URCHER ST MTL 103 RIVERDALE AVE OTTAWA ONT	B ENG PHY 4 VI 9 4352	KURDYLA NICHOLAS 3647 COLONIAL AVE MONTREAL 18 QUE	B ENG COM 5
KRUPSKI EVE MARY 1800 BLVD DU LAC ST EUSTACHE SUR LE LAC QUEBEC	B A 1	KURRUEK ILMAR 1130 LEPINE ST MONTREAL QUE	B ENG CIV 3 RE 7 5036
KRUZICH FRANK 7672 BROADWAY ST VILLE LASALLE QUE	B ENG 2 DO 6 9076	KURSELL ANDREW HERBERT 1585 MCOREGOR APT 24 MTL 376 OUELLET ST THETFORD MINES QUE	B ENG MI 3
KRYEZAK KAMILA 8050 LOUISE MEMON MONTREAL QUE	B A 4 RA 1 3792	KURTI THOMAS M 3618 OKENDEN AVE MTL BOX 145 NORTH WOODBURY CONN USA	MD CM 1 VI 9 7965
KUBANEK GEORGE RUDOLF 360 WOOD AVE MTL 300 FIFTH ST MIDLAND ONT	B ENG CH 4 WE 2 3014	KURYS STANLEY ROBERT 585 25TH AVE LACHINE QUE	B ED 2 ME 7 7128
KUDO CATHERINE F 156 HILLSIDE AVE WESTMOUNT QUE	MD CM 2 WE 5 9556	KUEHNIR KWITOELAWA M 5124 16TH AVE MONTREAL 36 QUE	B A 4 RA 1 9914
KUGELMASS LINDA 39 MONTÉE STE MARIE STE ANNE DE BELLEVUE QUE 5268 DALOU MONTREAL QUE	3 TCHRS	KUESNER ROSALIE 4830 CEDAR CRES MONTREAL QUE	B A 4 RE 8 4403
KUGLER GORDON BORTIMER 4602 MICHEL BISAUD MONTREAL QUE	B A 1 RE 7 0572	KUTZIM LORNA 6259 MOUNTAIN SIGHTS AVE MONTREAL QUE	3 TCHRS RE 8 8812
KUHI TIU ANN 120 BELMONT AVE LAKESIDE QUE	B A 3 OX 5 6412	KVAJIC GEORGE 4664 HUTCHISON ST MONTREAL QUE	B SC 3 CR 1 8950
KUHLMANN UTA HEIDI STEWART HALL 6787 34TH AVE MONTREAL 36 QUE	3 TCHRS	KVARDA IVO JAN J 1441 DRUMMOND ST MTL 199 DUNDAS ST W BELLEVILLE ONT	B ENG 1
KVLCSAR ELIZABETH B 4800 WILSON AVE MONTREAL QUE	B A 2 HU 4 0895	KWAN ANTHONY LUN TAK 471 PRINCE ARTHUR ST W APT 3 MTL 86 BLUE POOL RD HAPPY VALLEY HONG KONG	B ENG CIV 3
KULCZYCKI GREGORZ IHOR 7115 13TH AVE MONTREAL 38 QUE	B SC 3 RA 1 5605	KWAN CHUN KI 3575 SHUTER ST MTL 145 HENNESSY RD 3RD FL HONG KONG	B ENG 1
KULIK MORRIS 2307 BARCLAY AVE MONTREAL QUE	B ENG 2 RE 3 4786	KWAN KIM HUNG 3564 HUTCHISON ST MONTREAL QUE	B ENG COM 5
KULIS JOHN F 6701 LAURENDEAU ST MONTREAL QUE	B ENG 2 PO 6 9471	KWAN WILLIAM LOON QUEY 376 LABADIE ST MONTREAL 8 QUE	B ENG 1 CR 1 3764
KUMAR GANRAJ 4039 TUPPER ST MTL 50 SHERIFF ST CAMPSBELLVILLE DEMERARA BR GUIANA S A	MD CM 3 WE 5 9640	KWAN YEE YIN 2077 KIMBERLEY ST MTL 12 PRINCIPALE ST STE AGATHE DES MONTS QUE	B ENG CIV 5 AV 8 3679
KUMARAPALI PREMAATNO B INDIGOLLA ESTATE GAMPAHA CEYLON	B SC 4	KWAYNICK DAVID 1328 DUCHARME AVE OUTREMONT QUE	B A 3 CR 9 6752
KUMASAKA YORIMIKO QUEEN MARY VET HOSPITAL TAKAMATSUJIN JAPAN	MED DIPL 3	KWOK CHI KAI CLYDE 3509 1 2 REDPATH MTL 14 FUNG PAI TERR HAPPY VALLEY HONG KONG	B ENG PHY 4 VI 4 5907
KUNOHAL SUBODH KUMAR 3471 HUTCHISON ST MTL 658 NEW MANDI MUZAFFARNAGAR INDIA	M ENG 1 VI 9 6221	KWONG NORMAN NAI MAN DOUGLAS HALL 1 PRINCE S TERR 2ND FL HONG KONG	MD CM 2
KUNZ FRANK ANDREW 98 COLUMBIA AVE WESTMOUNT QUE	M A 1 WE 3 5012	KYRIAZIS DEMETRIOS JAMES 2039 MCOWILL COLLEGE AVE 15 ARTHUR ST OTTAWA ONT	B ENG CIV 4 VI 2 7650
KUPITSKY RONALD 430 WILLOWDALE AVE APT 7 MONTREAL QUE	B ENG MET 3 RE 3 6433	KYRITZ HEINZ GEORGE 245 BENOIT PL VILLE ST LAURENT QUE	PH D 3 RI 7 9219
KURDYLA JOHN 3647 COLONIAL AVE MONTREAL 18 QUE	B SC 3		

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L			
LAFLEUR HENRI PHILIP 3661 ONTARIO AVE MONTREAL 25 QUE	B C L 4 VI 2 6750	LAFLEUR JEAN HUGUES 169 MAPLEWOOD AVE OUTREMONT QUE	B C L 4 CR 1 7015
LAATESCH TORNOW RENE 3425 APPLETON AVE MONTREAL 26 QUE	B A 1 RE 8 2678	LAFOND CAMILLE 3505 LORNE ST APT 2 MTL FIELD ONT	B ENG EL 3 VI 9 6578
LABELLE GEORGE W 2284 MELROSE AVE MONTREAL QUE	B ENG CIV 4 MU 1 7643	LAFOND GILLES YVAN J 5573 BASILE PATENAUDE PL 664 DELANAUDIERE JOLIETTE QUE	B ENG MCH 5 LA 4 1093
LABELLE STEVE E 42 ST PIERRE ST STE ANNE DE BELLEVUE QUE R R 3 ARUNDEL QUE	2 TCHRS 1	LAFONTAINE GUY 6530 BOYER APT 310 MONTREAL QUE	B ENG CIV 3
LABERGE PAUL RENE 55 NELSON ST MONTREAL WEST QUE	B C L 1 MU 6 7967	LAFORCE ELSIE PEARL LEONA MACDONALD COLLEGE R R 3 BUCKINGHAM QUE	3 TCHRS
LABOW SAMUEL B 5398 GROVEHILL PL MONTREAL QUE	MD CM 2 HU 6 0700	LAFRENIERE REAL EMILE 3817 ADAM ST MONTREAL QUE	B ENG 1 LA 6 7182
LABOW LABOVITCH JUDITH M 21 MCNIDER AVE OUTREMONT 8 QUE	B ED 3 CR 7 6464	LACASSE JACQUES NELSON UNITED THEOLOGICAL COLL 125 LAROCHE ST VALLEYFIELD QUE	B ENG 1
LABRIE ROSS ERNEST 4145 BEACONSFIELD AVE MONTREAL QUE	M A 2 HU 1 4714	LAGEUX BARBARA ANN 487 DULWICH AVE ST LAMBERT QUE	B A 2 OR 1 7126
LACHANCE BRO PHILIPPE J ST GEORGE SCHOOL STE ANNE DE BELLEVUE QUE	PH D 4	LAHIRI SUJATA 3619 UNIVERSITY ST MTL 3534 UNIVERSITY ST MONTREAL QUE	PH D 2
LACHAPELLE JOSEPH C G 5 STIRLING AVE MTL 127 LAVAL CRATREE MILLS QUE	B ENG EL 4 DO 5 0686	LANTI LEO 2750 BEDFORD RD APT 94 MONTREAL QUE	B ENG CIV 4 RE 3 2687
LACHOWICZ ALJOZY R 3935 VERDUN AVE VERDUN QUE	D D S 2	LAILAW ARCHIBALD S 495 PRINCE ARTHUR ST MTL 1300 QUEEN ST E SAULT STE MARIE ONT	B SC 1
LACK PETER ROBERT 4430 CIRCLE RD MONTREAL QUE	B A 2 RE 8 6669	LALIBLY BRIAN HENRY 56 SUNNYSIDE AVE WESTMOUNT QUE	B ENG 1 MU 6 6369
LACKEY ALLISON W 3015 SHERBROOKE ST W MTL 445 PICCADILLY OTTAWA ONT	MD CM 2 WE 2 3268	LALIBLY WENDELL MALDANE 56 SUNNYSIDE AVE WESTMOUNT QUE	B ENG COM 3 MU 6 6369
LACOMBE JOSEPH ALPHONSE B 3612 ST GERMAIN MONTREAL QUE	B C L 3 LA 1 3601	LALING CAROL LOUISE 23A STE ANNE ST STE ANNE DE BELLEVUE QUE 4094 MARCIL AVE MONTREAL QUE	3 TCHRS
LACROIX MICHAEL 246 EDISON AVE ST LAMBERT QUE	B ARCH 3 OR 1 8860	LALING ROBERT DONALD 3511 PEEL ST MTL 7531 MOLSON ST MONTREAL 38 QUE	B A 3 VI 4 4777
LACROIX NEUVILLE CLAUDE J 8385 CASGRAIN ST MONTREAL QUE	PARTIAL DU 7 7523	LAIRD FITZ ROY 3635 LORNE GRES MTL ABERDEEN P O JAMAICA W I	B COM 3 VI 2 0557
LADOUCEUR RONALD A J 785 6TH AVE LACHINE QUE	B ENG 2 ME 7 7854	LALSHLEY EDWARD JAMES BOX 48 MACDONALD COLLEGE 400 MCLEOD ST OTTAWA ONT	M SC 1
LAFERRIERE DENYSE 259 CLAUDE DAUZAT BOUCHERVILLE QUE	B ENG MET 5 OL 5 5006	LALJOIE JEAN 10203 BERRI ST MONTREAL QUE	M SC 1 DU 8 0371
LAFERTY JUDY MARJORIE ROYAL VICTORIA COLLEGE 425 MAPLE LANE OTTAWA 3 ONT	B SC 4 VI 2 0147	LAKATOS THOMAS GEORGE 4945 KING EDWARD AVE MONTREAL QUE	B ENG EL 4 MU 8 7775
LAFPOLEY JOHN RICHARD 4808 WESTERN AVE WMT 981 LAKESHORE RD WOODLANE CO CHATEAUGUAY QUE	B C L 4 WE 7 1600	LAKE CATHERINE ANNETTE ROYAL VICTORIA COLLEGE GREENLANDS ST KITTE B W I	B SC 2
LAFLEUR ANNE MARGARET 50 HEATH RD HAMPSTEAD QUE	B A 3 MU 4 4325		
LAFLEUR ANTHONY JAMES 3661 ONTARIO AVE MONTREAL 25 QUE	B C L 4 VI 2 6750		

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NAME ADDRESS	COURSE & YEAR TEL. NO.	NAME ADDRESS	COURSE & YEAR TEL. NO.
LAKE EDWIN S BRITTAIN HALL FACTORY RD ST JOHN'S ANTIQUA W I	B SC AGR 4	LAND VITA JOYCE ROYAL VICTORIA COLLEGE 65 WHITNEY AVE SYDNEY N S	B SC 3 VI 2 0334
LAKE ROBIN C O CDN BANK OF COMMERCE 2055 PEEL ST MONTREAL QUE	B A 1	LANDA ARTHUR 2120 GOYER ST MONTREAL QUE	B SC 1 RE 3 3482
LAKOFF ROBERT STEPHEN 833 PRATT AVE MONTREAL 8 QUE	B SC 1 RE 8 9297	LANDER GEORGE 500 PINE AVE W MTL 5 GEORGE ST MIDDLETOWN CONN USA	MD CM 4 VI 9 7200
LALLA NICHOLAS CARMINE 964 MELROSE AVE MONTREAL 28 QUE	B ENG 2 HU 8 4663	LANDER PHILIP HOWARD P 6315 LENNOX AVE MONTREAL 8 QUE	B SC 2 RE 8 9208
LALONDE CLAIRE 5510 STIRLING APT 6 MTL RUE LEVAC RIGAUD CO VAUDREUIL QUE	B SC P OT 3 RE 9 0273	LANDRY PETER CORY 173 MORRISON AVE MONTREAL 16 QUE	M SC 1 RE 3 5666
LALUMIERE GAETAN 515 ST PAUL ST LA PRAIRIE QUE	B C L 1 OL 9 1370	LANDS ANITA 5532 SNOWDON AVE MONTREAL QUE	B A 1 HU 1 1530
LAM ANTHONY K 3484 DUROCHER ST APT 4 8 CHANCERY LANE HONG KONG	MD CM 2 VI 4 5229	LANE RAYNALD ALLAN 3621 LORNE CRES MTL 149 WARNER ST MARIETTA OHIO USA	MD CM 3 VI 9 6086
LAMB JUDITH MARGARET 49 BROOK AVE N MONTREAL WEST QUE	B A 2 HU 4 0922	LANG BRENDA JANE 358 CURZON AVE ST LAMBERT QUE	B A 2 OR 1 9794
LAMBERT GOULDING 6 BRAESIDE PL WESTMOUNT QUE	B SC 1 WE 2 9650	LANG DONALD AYLMER C 3849 MAURICE ST FABREVILLE QUE	MED DIPL 1
LAMBERT VIRGINIA LAIRD HALL 51 MAISONNEUVE AVE ROSEMERE QUE	B SC H EC 4	LANG FLORENCE STURGES 449 101ST AVE L ABORD A PLOUFFE QUE	2 TCHRS MU 1 3476
LAMBERT WILLIAM JOHN 475 PINE AVE W MTL R R 1 WELLANDPORT ONT	B ED P ED 4 VI 4 4270	LANG NICKI HAROLD 4554 STANLEY WEIR ST MONTREAL QUE	B SC 4 RE 9 8710
LAMBIE MAX MICHAEL E 812 MILTON ST APT 2 MTL ST ANN S BAY P O JAMAICA B W I	B ENG CIV 5 VI 5 0740	LANGVIN RONALD LINDSAY A 668 SIXTH AVE VERDUN QUE	B SC 3 PO 6 2854
LAMONTAGNE JACQUES 2024 MCGILL COLLEGE AVE APT 10 MTL P O BOX 235 ST LEONARD N B	B ENG EL 4 AV 8 8367	LANGHILL WILLIAM P 31 ST PETER ST STE ANNE DE BELLEVUE QUE 113 FLANDRE PREVILLE ST ST LAMBERT QUE	B SC AGR 2
LAMONTAGNE JOSEPH ARTHUR 418 PINE AVE APT 37 MTL P O BOX 69 CHARNY QUE	B ENG CIV 4 VI 5 6688	LANGILLE ALAN R BRITTAIN HALL 162 BRUNSWICK ST TRURO N S	B SC AGR 4
LAMONTAGNE LOUISE MARIE M 60 HOLLYWOOD OUTREMONT QUE	B SC P OT 3 RE 8 1994	LANGINGER FRED A 3846 KENT AVE MONTREAL QUE	M S D DIP RE 3 2481
LAMOTHE JACQUES ANDRE P 348 LEGAULT ST STE ANNE DE BELLEVUE QUE	B SC AGR 1	LANGLEY CLAIRE ELIZABETH ROYAL VICTORIA COLLEGE 925 MOFFATT BRITANNIA MTS P O OTTAWA ONT	B SC 4 VI 2 0847
LAMOUREUX IVAN 270 ST LAURENT LONGUEUIL QUE	B ENG EL 4	LANGHAM HENRY 4854 ST URBAIN ST MONTREAL QUE	B ENG PHY 4 CR 7 1981
LAMOUREUX JACQUELINE 544 BEACONSFIELD BLVD BEAUREPAIRE QUE	B SC H EC 1 OX 5 6172	LANGSHUR MARGERY 4255 DUPUIS AVE MONTREAL QUE	M A 1 RE 3 5030
LAMPLUGH JENNIFER GAIL 64 STRATFORD RD HAMPESTEAD QUE	B A 1 HU 1 5085	LANTHIER JOHN SPENCER 33 SURREY DR MONTREAL 16 QUE	B COM 2 RE 1 1675
LAND ANN L 6092 SOMERLED AVE MONTREAL QUE	B SC P OT 2 HU 1 3951	LAPA GEORGE C O GOLF CLUB LAVAL SUR LE LAC QUE	B ENG EL 3
LAND ROBERT LARS 158 LEGAULT STE ANNE DE BELLEVUE QUE 6092 SOMERLED AVE MONTREAL QUE	B SC AGR 3	LAPAN WILLIAM AMES 418 PINE AVE W APT 27 21 RIVERSIDE DR SARANAC LAKE N Y USA	B SC 3 VI 5 2989
		LAPIN AVRUM ISSOR ELI 5035 HAMPTON AVE MONTREAL 29 QUE	B ENG PHY 5 HU P 8137

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LAPIN BARBARA 492 DUFFERIN RD HAMPSTEAD QUE	J TCHRS HU 4 1336	LAUFER SAUL 8032 DE L EPEE AVE MONTREAL QUE	M S W 1 CR 4 1789
LAPLANTE CHARLOTTE Y 2324 LINCOLN AVE APT 21 MTL 240 CHARLOTTE ST OTTAWA ONT	PH D 2 WE 5 6104	LAUR VELJO 5460 CORONATION AVE MONTREAL QUE	B ENG 1 HU 8 3433
LAPLANTE MICHAEL P 2324 LINCOLN APT 21 MTL 240 CHARLOTTE ST OTTAWA ONT	MD CM 2 WE 5 6104	LAURENDEAU ANDRE MARC 455 ELM AVE WESTMOUNT QUE	B ENG CIV 5 WE 7 3607
LAPLANTE MADELEINE C 2324 LINCOLN AVE MTL 240 CHARLOTTE ST OTTAWA ONT	B A 2 WE 5 6104	LARIA ANN 4635 CLANRANALD AVE MONTREAL QUE	B SC 1 HU 8 1941
LAPLANTE RICHARD JOSEPH R 2395 SHEPPARD ST MONTREAL QUE	B COM 4 LA 5 7926	LAUSHWAY MARY T MACDONALD COLLEGE R R 5 SPENCERVILLE ONT	B SC M EC 1
LAROCQUE WESLEY CLARE BRITTAIN HALL OLEN SUTTON QUE	B SC AGR 1	LAVALLEE PIERRE 110 DESAULNIERS BLVD ST LAMBERT QUE	B ENG PHY 3 OR 1 0584
LARROW BARTLEY L 3429 DRUMMOND ST MTL 52 WASHINGTON ST MIDDLEBURY VT USA	D D S 1	L AVENTURE LINDA E ROYAL VICTORIA COLLEGE 99 CRESCENT RD TORONTO ONT	B A 2
LARSON JANE HELGA LAIRD HALL 1015 CREVIER ST VILLE ST LAURENT QUE	2 TCHRS 1	LAVENTURE REGINALD B BRITTAIN HALL BOX 765 ARNPRIOR ONT	B SC AGR 2
LARSSON NILS KOGE 1588 MCOREGOR ST APT 92 MONTREAL QUE	B ARCH 3 WE 3 7945	LAVERE WILLIAM K 206 KENASTON AVE MONTREAL 16 QUE	B ENG 2
LARTEY BENJAMIN LARTEI BRITTAIN HALL C O MIN OF EDU HAF P O BOX M45 ACCRA GHANA	B SC AGR 1	LAVERTU CLAUDE 3515 DUROCHER APT 54 MTL AV 8 2679 1115 124TH RUE SHAWINIGAN QUD 2 QUE	B ENG 1 PO 7 7736
LASCHELLES GAETAN 1839 LINCOLN ST MTL 1 ABBOTT ST HAWKESSBURY ONT	B ENG CIV 5	LAW FAI HOP 3712 JEANNE MANCE ST APT 4 MTL 186 PAYVEN ST 6TH FL KOWLOON HONG KONG	B ENG 2
LASCHIAZZA DOMINIC 176 GOUIN BLVD W MONTREAL QUE	MD CM 3 DU 7 3548	LAW SHIUWAI R L S W 3419 HUTCHISON APT 4 MTL VI 5 0790 107 GLOUCESTER RD 3RD FL WANCHAI HONG KONG	B ENG 2
LASCHINGER JOAN E LAIRD HALL 29 SEVIGNY AVE DORVAL QUE	B SC M EC 1	LAW VIRGINIA ANNE 4181 KENSINGTON AVE MONTREAL 28 QUE	B SC 1 HU 1 8137
LASHIER BERNARD 2 ST ANTOINE LONGUEUIL QUE	B ENG 2 OR 4 6557	LAWETZ HERMAN 6166 DUROCHER ST OUTREMONT QUE	B ENG 2 CR 2 1355
LASTER HERSH 6403 DE VIMY AVE MONTREAL QUE	B SC 2 RE 9 0113	LAWLOR HENRY JAMES 3679 JEANNE MANCE ST MTL 104 POND ST WESTWOOD MASS USA	B SC 1
LASZLO CHARLES ANDREWS 2652A BRINTON RD MONTREAL QUE	B ENG PHY 4 RE 8 7179	LAWRENCE BRIAN R 3508 UNIVERSITY MTL 25 MAYFIELD RD BOURNEMOUTH ENGLAND	B ENG MCH 3 VI 4 0752
LASZLO GABRIEL P 4255 DUPUIS AVE APT 14 MONTREAL QUE	B ENG MCH 5 RE 9 0809	LAW WENDY ELSPETH L 1509 SHERBROOKE ST W MONTREAL QUE	B SC M 1 WE 3 9545
LATIMER JOHN MARTIN 3450 ATWATER AVE MONTREAL QUE	B A 3 WE 5 6091	LAWSON KEITH A 3790 ROYAL AVE MTL 76 HIGHLAND CRES GALT ONT	B ENG 1 HU 4 5231
LATOUR ROBERT NORMAN 367 ELM AVE WSMT 3 MONTROSE ST WORCESTER 10 MASS USA	D D S 3 WE 5 7360	LAWSON MARY B 37 CHURCH HILL WESTMOUNT QUE	B ED P ED 3 WE 5 5747
LATTARD VICTOR 10630 DEMARTIGNY MONTREAL QUE	B ENG EL 3 DU 1 1709	LAWSON NELSON ERNEST 61 BEVERLEY AVE TOWN OF MT ROYAL QUE	B SC 1 RE 8 8697
LAU CHUI FU ARTHUR 375 PRINCE ARTHUR ST MTL 84 JUNCTION RD 4TH FLOOR KOWLOON CITY HONG KONG	B ARCH 4 AV 8 9664	LAWSON RAY EVANS 37 CHURCH HILL WESTMOUNT QUE	B SC 2 WE 5 5747

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LAWSON WILLIAM M DOUGLAS HALL AYLMER RD R R 1 MULL QUE	B SC 2	LEBEL ROLAND GUY 3695 JEANNE MANCE ST MTL 50 EMMERSON ST EDMUNDSTON N B	PH D 2 VI 5 5543
LAX BERNARD BALFOUR 441 MITCHELL AVE TOWN OF MT ROYAL QUE	PH D 3 VI 5 2211	LEBENSOLD PETER LEONARD 3160 RAMSAY PL MONTREAL QUE	B SC 1 WE 2 0119
LAX CHRISTOPHER EATON 5 PARKSIDE ST MONTREAL WEST QUE	B COM 1 HU 8 5730	LEBLANC CAROL MILLICENT M MACDONALD COLLEGE 265 UNION BLVD ST LAMBERT QUE	B TCHRS 1
LAXSON ROBERT GORDON 3482 MCTAVISH ST MTL 94 COULSTON AVE ASBESTOS QUE	B ENG COM 5 VI 4 0059	LEBLANC JEAN R 5296 PONSARD AVE MONTREAL QUE	B COM 2 HU 9 6976
LAYNE ALICE EDITH R 108 GRAFTON ST SHREWSBURY MASS USA	M SC 2	LE BLANC JOSEPH PATRIC Y 10020 VERVILLE ST MONTREAL QUE	B ENG CIV 3 DU 1 3273
LAZANIK NORMAN SAUL 1672 HARTENSTEIN ST VILLE ST LAURENT QUE	B A 1 RI 7 5836	LEBLANC MAURICE ANDRE 7485 STUART AVE MONTREAL 15 QUE	B ENG CIV 5 CR 2 6750
LAZAR HARVEY 4910 DORNAL AVE MONTREAL QUE	B SC 4 RE 8 7043	LEBLOND PAUL QUEEN MARY VETERANS HOSP 341 SEMINAIRE AVE CHICOUTIMI QUE	B SC 3
LAZAR IRVING 2720 BEDFORD RD APT 2 MONTREAL QUE	B SC 2 RE 3 4052	LEBLOND PAUL NOEL 68 CHESTERFIELD AVE WESTMOUNT QUE	B SC 2 HU 6 4837
LAZAR MARION 4935 PONSARD AVE MONTREAL QUE	B A 2 RE 3 9760	LEBLOND PHILIPPE LOUIS 68 CHESTERFIELD AVE WESTMOUNT QUE	B ENG COM 5 HU 6 4837
LAZAR MARTIN LEWIS 5145 COTE ST LUC RD APT 26 MONTREAL QUE	B SC 2 HU 4 1645	LEBOWITZ BARRY DAVID 3641 OXENDEN AVE MTL 28 ABBOT ST DORCHESTER 24 MASS USA	B SC 1 AV 8 0566
LAZARE MARK 5370 LAVOIE ST MONTREAL QUE	B A 1 RE 8 8060	LE BRETON DOREEN ELAINE ROYAL VICTORIA COLLEGE PASPEBIAC QUE	B SC 1
LAZARE SHARON ANNE 5370 LAVOIE MONTREAL QUE	B SC 1 RE 8 8060	LECKER CHARLOTTE JOYCE 1600 DUTRISAC ST VILLE ST LAURENT QUE	B SC P OT 2 RI 7 2042
LAZARUS MORDEN 3606 BORDEN ST COTE ST LUC QUE	B A 2 HU 8 7117	LECKER GEORGE ALAN 4275 MAPLEWOOD AVE MONTREAL 29 QUE	M S D DIP RE 8 8617
L DUHAIME YVES 900 SHERBROOKE ST APT 23 MTL 2425 ST MARC ST SHAWINIGAN QUE	B CL 1	LECKER SIDNEY 4930 ST KEVINS APT 12 MONTREAL QUE	MD CM 2 RE 9 2140
LEA PATRICIA IVY 6 PARK PL APT 16 WESTMOUNT QUE	3 TCHRS WE 7 8860	LECKER STEPHEN 5815 TRANS ISLAND AVE MONTREAL 29 QUE	M S W 1 RE 8 9391
LEACH GEOFFREY CAMPBELL 37 PARKSIDE ST MONTREAL WEST QUE	B SC 4 HU 4 4011	LECKIE NESSA 6875 LABALLE BLVD MTL 407 CHURCH AVE WINNIPEG MAN	B N 2 PO 6 8511
LEACH RICHARD KENNETH 37 PARKSIDE ST MONTREAL WEST QUE	B ENG 1 HU 4 4011	LECLERC JAMES RENE 4190 ST JOSEPH ST LACHINE QUE	B ENG CH 5 ME 7 8348
LEADBETTER RONALD ALLAN 10 WINCHESTER AVE WESTMOUNT QUE	B A 1 HU 6 0619	LECLERC WILBROD 3635 RIDGEWOOD AVE APT 107 MONTREAL QUE	PH D 2 RE 8 7612
LEATHAM PATRICIA A ROYAL VICTORIA COLLEGE 2041 ALTA VISTA DR OTTAWA 1 ONT	B A 1 VI 2 0526	LECUEY MADELINE EDITH MACDONALD COLLEGE 60 TRUDEAU AVE CHATEAUGUAY MTS QUE	P E DIP 1
LEAVITT MARILYN JANE 5120 SIR GEORGE SIMPSON LACHINE QUE	B ED P ED 2 ME 7 7432	LEDAIN MARJORIE JANET Y MACDONALD COLLEGE 1865 VERTU RD VILLE ST LAURENT QUE	M S D DIP
LE BARON JOHN FRANCIS DOUGLAS HALL 300 HOWARD AVE SHERBROOKE QUE	B A 2 VI 4 0977	LEDAIN SUSAN ELEANOR MACDONALD COLLEGE 3325 DAWES ST LACHINE QUE	B TCHRS 1
LEBEAU ROBERT JOSEPH 3339 SHERBROOKE ST E MONTREAL QUE	B ENG 2 OL 5 1175	LEDEN WILLIAM JOSEPH WILSON HALL 205 NORTH AVE W CRANFORD NEW JERSEY USA	B ENG 1 VI 4 0624
LEBEL JULES 2019 GOUIN BLVD E MONTREAL 13 QUE	M SC 2 DU 8 1837		

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LEDERMAN SYLVIA DIANE LAIRD HALL 1249 GREENE AVE WESTMOUNT QUE	M E D DIP	LEE YIK MING R 473 PRINCE ARTHUR ST W P O BOX 5 SAN NICHOLAS AROSA N W I	B ENG EL 3
LEDoux GILLES 96 8TH AVE LASALLE QUE	PH D 3 DO 5 0837	LEES FENELPHE ANN 43 BELTON RD PTE CLAIKE QUE	B TCHRS 2 OX 5 4480
LEDUC MARC ANDRE 3467 ONTARIO AVE MTL 491 WILLARD AVE TORONTO 9 ONT	B C L 1 AV 8 4021	LEET DIANNE MAY 5656 MCLYNN AVE MONTREAL QUE	B TCHRS 1 RE 8 7175
LEE ALFRED SING WILSON HALL 311 WEST 21ST AVE VANCOUVER 10 B C	B ENG CH 1 VI 4 0624	LEFCOE MICHAEL STANLEY 4720 WESTMOUNT BLVD WESTMOUNT QUE	B SC 2 HU 4 3184
LEE ANDREW JOHN BRITAIN HALL CHELSEA QUE	B SC AGR 3	LEFCORT ELIZABETH 31 PERRAULT ST STE ANNE DE BELLEVUE QUE 641 ROSLYN AVE MONTREAL QUE	B TCHRS
LEE CLEMENT 3419 HUTCHISON ST APT 4 MTL 33 TONG LO WAN RD GR FL Q T HONG KONG	B ENG 2 VI 5 0790	LEFCORT ROBERT 3460 SIMPSON ST APT 103 MONTREAL QUE	B A 4 WE 7 5961
LEE D ARCY ALEXANDER 1001 SHERBROOKE ST W APT 15 MTL 123 ABERCROMBY ST PORT OF SPAIN TRINIDAD T W I	B SC 3 AV 8 4667	LEFEBVRE YVES ST FRANCOIS XAVIER RD LAPRAIRIE QUE	B C L 1 OL 9 5097
LEE DAVID K 72 MARIE ANNE ST W MTL 12 HOPDALE AVE TORONTO 6 ONT	B ENG EL 3 VI 9 8557	LEFEVRE ALAIN MICHEL J 4 MAPLE AVE APT 33 STE ANNE DE BELLEVUE QUE 2255 CHOMEDY ST MONTREAL QUE	M E D DIP
LEE HEM WING 3919 ST URBAIN ST MONTREAL QUE	B ENG MET 4 VI 4 8992	LEFRANCOIS JEAN CHARLES J 191 MAPLEWOOD AVE MONTREAL 8 QUE	B C L 1 UR 7 1691
LEE HON SUN SPENCER 2049 MCGILL COLLEGE AVE APT 8 MTL 72 CASTLE PEAK RD GR FL KOWLOON HONG KONG	B SE 3 VI 9 0029	LEGARE PAULINE M 3315 MAPLEWOOD AVE APT 15 MTL 208 CLEMOW AVE OTTAWA ONT	M S W 2
LEE JOHN HUKSUN 1441 DRUMMOND ST MTL 30 HILLWOOD RD KOWLOON HONG KONG	B ENG MCH 5	LEGER LAWRENCE ARTHUR 673 WESTCHESTER DR SAIE D URREE QUE	B SC 1
LEE JOHN YORK HON 3508 UNIVERSITY ST MTL 75 ROBINSON RD 3RD FL HONG KONG	B SC 3 VI 5 4873	LEGG THOMAS HARRY 5765 HUDSON RD APT 2 MONTREAL QUE	PH D 4 RE 9 1007
LEE JONATHAN KE PING 3590 CLARK ST MTL 436 CHATHAM RD 3RD FL KOWLOON HONG KONG	B ENG PHY 5	LEGGE ANDREE CARROLL MONTREAL GENERAL HOSP BOX 38 BEEBE QUE	GRAD DIP
LEE LANSUN 4087 ST DOMINIQUE ST MONTREAL 2 QUE	M ENG 1 VI 5 5789	LEGGE ROBERT JAMES B 3651 OXENDEN AVE MTL CAIXA POSTAL 1546 FLORENCIO DE ARREO 438 SAO PAULO BRAZIL	B ENG 1 VI 5 3538
LEE LEVEN ROYAL VICTORIA COLLEGE 22A RUA DE S DOMINGOS MACAU	B SC 1 VI 2 0147	LEGHARI MOHD IQBAL L 3635 LORNE CRES APT 3 VILL RAHIMABAD RLY ST SADIK AGAD BAHAWAL PUR DIV W PAKISTAN	B SC 3 VI 2 0557
LEE NANCY VIOLA 3449 PEEL ST MTL C O C H LEE R R 1 NELSON B C	B N 2 VI 4 0902	LE GRAS FRANCOIS M 3508 UNIVERSITY ST MTL 201 RACHAEL AVE OTTAWA ONT	B D 2 VI 5 4873
LEE SANG MAN 550 MILTON ST MONTREAL QUE	PH D 3 AV 8 8887	LEGRIS JOCELINE 2395 DORION ST MONTREAL 24 QUE	GRAD DIP LA 1 8090
LEE VIVIANNE MAY TAK WAI ROYAL VICTORIA COLLEGE PENTHOUSE TOWER COURT HYSAN AVE HONG KONG	B A 2	LEHMANN MARC M 177 FONTAINEBLEAU JACQUES CARTIER QUE	B ENG 2 OR 4 1087
LEE YET CHEUNG 2100 MOREAU ST MONTREAL QUE	B SC 3 LA 1 9900	LEHOTAY EMESE MARY 4331 DRAPER ST MONTREAL QUE	B A 1 HU 9 6161
		LEHRER HAROLD CYRIL 2040 SCOTT VILLE ST LAURENT QUE	B ENG 1 RI 7 3619

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LEHMAN JONAS BENZION 3660 LORNE CRES APT 6 416 TALBOT ST OTTAWA 2 ONT	M ARCH 1 AV 8 0157	LEMMEX CHARLES WESLEY WILSON HALL 88 MAIN ST SMITHS FALLS ONT	B ENG 2
LEHTO JOHN R 4450 WESTERN AVE MTL 81 MCMASTER AVE TORONTO ONT	B ENG MI 4 WE 5 2610	LEMOINE ANTHONY G 3875 RAMEZAY RD MONTREAL 6 QUE	B ENG 1 WE 3 5181
LEIBE RALPH 4854 WILSON AVE MONTREAL QUE	B ENG CIV 5 MU 8 3756	LENGUIS CORINNE ELIZABETH 5933 DOLBEAU MONTREAL QUE	B A 1 RE 9 4476
LEIGH DAVID 52 JASPER RD SEACONSFIELD QUE	M S W 1 OX 5 9593	LENGUIS EVANGELINE 5933 DOLBEAU MONTREAL QUE	B A 3 RE 9 4476
LEIGH GEORGE A 5732 HUTCHISON ST MONTREAL 8 QUE	B C L 2 CR 7 3928	LEONARD GUY LUC YVES 1441 DRUMMOND ST MTL 221 LABELLE ST ST JEROME QUE	B C L 1 VI 9 4171
LEIGH HELEN ELIZABETH A LAIRD HALL 301 WESTMINSTER AVE APT 1 MONTREAL WEST QUE	3 TCHRS	LENER EARL 4865 FULTON AVE MONTREAL 26 QUE	D D S 1 RE 8 1673
LEIGH HOWARD WILLIAM 3490 TRENHOLME AVE MONTREAL QUE	B ENG PHY 5 MU 4 2033	LENER FRED P 582 COTE ST ANTOINE RD WESTMOUNT QUE	B ARCH 2 MU 6 4083
LEIGH JOHN DIBBY 301 WESTMINSTER AVE MONTREAL WEST QUE	B ENG 2 MU 4 9700	LENER MILDRED 4927 CARLTON AVE MONTREAL QUE	M S W 2 RE 9 2763
LEIGHTON HENRY GEORGE 864 DOLLARD AVE OUTREMONT QUE	B SC 3 CR 1 9107	LENER SHIRLEY 4927 CARLTON AVE MONTREAL QUE	B SC P OT 2 RE 9 2763
LEIPER CAROL IRENE 1009 SHERBROOKE ST W MTL 3475 ASH ST VANCOUVER 9 B C	B SC P OT 2 VI 2 7444	LEROUX CLAUDE 215 MT ROYAL W MTL BOX 261 ALEXANDRIA ONT	B ENG 2 VI 5 8445
LEITASS RUTH 644 35TH AVE VILLE LASALLE QUE	B SC 3	LEROUX GILLES 9110 BERRI ST MONTREAL QUE	B ENG 1 DU 8 5297
LEITH DONALD ROBERT 145 51ST AVE LACHINE QUE	D D S 3 ME 7 7470	LEROUX MARIE P F 378 CARLYLE AVE TOWN OF MT ROYAL QUE	B ARCH 2 RE 8 8971
LEITH WILLIAM CUMMING 4534 DRAPER AVE MONTREAL QUE	PH D 3 MU 8 7657	LEROUX PIERRE GEORGE 8525 SHERBROOKE ST E APT 15 MONTREAL QUE	B ENG MCH 3 LA 6 5872
LEITHMAN SIDNEY HARRY 4139 DE SULLION ST MONTREAL QUE	B C L 3 AV 8 2350	LESLIE IAN OGILVY 509 CLARKE AVE WESTMOUNT QUE	B ENG MET 3 WE 2 7989
LEKAS HELEN BARBARA 2675 JEANNE D ARC AVE MONTREAL 4 QUE	2 TCHRS CL 9 6748	LESERANCE JEAN L 1071 BLEURY ST MTL 115 FRIERN BARNET LANE LONDON N 20 ENGLAND	M A 2 UN 1 6187
LELOVIC HELEN MARY 385 MELBOURNE AVE TOWN OF MT ROYAL QUE	B COM 4 RE 7 6154	LESERANCE RICHARD R 7690 LOUIS HEBERT ST MONTREAL QUE	MD CM 2 RA 7 4163
LE MAY LOUIS PHILIPPE 528 PRINCE ARTHUR ST APT 6 MTL 142 ST PATRICK OTTAWA ONT	MD CM 1	LESSARD HEATHER ANNE MACDONALD COLLEGE P O BOX 164 GRENVILLE QUE	2 TCHRS 1
LEMARQUAND ARTHUR 2635 ONTARIO E MTL BOX 36 PASPEBIAC QUE	B C L 1 LA 4 9042	LESSARD LEONA JANE ROYAL VICTORIA COLLEGE 42 WILSON ST P O BOX 460 LENNOXVILLE QUE	B SC 1 VI 2 0571
LEMOVITCH MARK 6905 VICTORIA AVE APT 13 MONTREAL QUE	B A 1 RE 8 5446	LESSER SARA MARTIN STE ANNES HOSPITAL STE ANNE DE BELLEVUE QUE	M S W 2
LEMOVITZ ROSLYN 336 COTE ST CATHERINE RD OUTREMONT QUE	B A 2 CR 7 9947	LEUNG ALBERT KAM YING 3610 DUROCHER AVE APT 9 MTL 60 VILLAGE RD 1ST FL HAPPY VALLEY HONG KONG	MD CM 1 VI 9 5035
LEMIEUX MARCEL 6207 LACORDAIRE MONTREAL QUE	MED DIPL 2 CL 6 3788	LEUNG CHONG TOM 3885 ST URBAIN ST MTL 88A COLBORNE ST OAKVILLE ONT	B ENG COM 5
LEMIRE ELOISE LUCILLE M MACDONALD COLLEGE 517 ALLEN AVE SHERBROOKE QUE	3 TCHRS	LEUNG KWOK SWI 3534 LORNE AVE APT 9 MTL 1 PEACE AVE 1ST FLOOR KOWLOON HONG KONG	B SC 1

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LEUNG KWOK TZE 1441 DRUMMOND ST MTL 10 SOARES AVE 5TH FL KOWLOON HONG KONG	B ENG PHY 5	LEVY LEONARD 4750 DUFUIS AVE MONTREAL QUE	B SC 1 RE 3 8492
LEUNG YIM 3545 HUTCHISON ST MTL 28 OILMAN BAZAAR HONG KONG	B ENG 2	LEVY MORTIMER 1582 DUCHARME AVE OUTREMONT QUE	MD CM 3 CR 6 5671
LEVERT JOSEPH LOUIS PAUL 3484 FULTON ST MTL 121 RUSSELL AVE OTTAWA ONT	B ENG EL 3 VI 4 5922	LEVY NORMAN 4810 BOURRET APT 204 MONTREAL QUE	B CL 1
LEVINE ALLEN LANCE 4541 HAMPTON AVE MONTREAL QUE	B COM 4 HU 8 4981	LEVY ROBERT 4758 DUFUIS AVE MONTREAL QUE	M SC 1 RE 3 8492
LEVINE ARTHUR 174 SHERATON DR MONTREAL WEST QUE	B ENG EL 4	LEVY STEPHEN 690 ABERDEEN AVE WESTMOUNT QUE	B A 3 HU 1 5035
LEVINE DAVID ZELIO 4896 FULTON ST MONTREAL QUE	MD CM 1 RE 1 5702	LEVY THOMAS ALLEN 5386 WAVERLY ST MONTREAL 14 QUE	B A 2 CR 9 5137
LEVINE DOROTHY JOY 672 CAVEN CIRCLE VILLE ST LAURENT QUE	B A 1 RI 8 7483	LEWIS ANNE CARTER MTL GENERAL HOSPITAL 275 HEMLOCK ST TIMMINS ONT	B SC N 4
LEVINE ELEANOR 3210 KENT AVE MONTREAL 26 QUE	B SC P OT 2 RE 9 0202	LEWIS HELEN B W 15618 PINE AVE W MONTREAL QUE	MD CM 4 WE 5 6013
LEVINE ELIZABETH 5521 BRADFORD PL MONTREAL QUE	B A 4	LEWIS JACQUELINE ELAINE 4059 WESTHILL AVE MONTREAL QUE	M S D DIP HU 4 1481
LEVINE GERALD JERRY 2817 BEDFORD RD MONTREAL QUE	B SC 2 RE 9 1316	LEWIS JOY P 3638 DUBOIS ST APT 3 BOX 460 SHEDIAK WEST CO N B	GRAD DIP AV 8 6466
LEVINE JUDITH 636 ALGONQUIN AVE TOWN OF MT ROYAL QUE	B A 1 RE 8 5049	LEWIS LEON 1914 CLINTON AVE MONTREAL 8 QUE	B D S 4 RE 7 2185
LEVINE LEONARD ELIOT 4165 ESPLANADE MONTREAL QUE	M S W 2 AV 8 3452	LEWIS LEW SOLOMON 4801 COTE ST CATHERINE MONTREAL 26 QUE	B A 1 RE 8 6730
LEVINE MARK ARNOLD 642 LANSBOWNE AVE WESTMOUNT QUE	B COM 1 HU 4 9608	LEWIS MICHAEL BERNARD 6282 MCLYNN AVE MONTREAL QUE	B ENG 1 RE 7 6834
LEVINE MARTIN DAVID 2817 BEDFORD RD MONTREAL QUE	B ENG COM 5 RE 9 1316	LEWIS NOEL MARQUERITE ROYAL VICTORIA COLLEGE 158 WATERLOO ST GEORGETOWN BRITISH GUIANA	M A 1 VI 2 0833
LEVINE SAUL 595 BRUNET ST MONTREAL QUE	MD CM 1 RI 7 8054	LEWIS ROBIN TANNOCK 312 METCALFE AVE WESTMOUNT QUE	B A 1 WE 3 9745
LEVINE SHIRLEY 3210 KENT AVE MONTREAL QUE	GRAD DIP 1 RE 9 0202	LEWIS VIRGINIA 312 METCALFE AVE WESTMOUNT QUE	B A 8 WE 3 9745
LEVINE STEPHEN LESLIE 917 DAVAAR AVE MONTREAL QUE	B COM 1 CR 9 9354	LEWITT JEWEL 1942 CLINTON AVE MONTREAL QUE	B A 8 RE 7 2288
LEVINSON JUDITH MARCIA 5567 GLENCREST AVE MONTREAL QUE	B A 1 HU 4 6291	LEWTHWAITE LESLIE A MCLENNAN HALL BOX 160 EMERSON MAN	B SC P OT 8 VI 2 0044
LEVITT AARON 5436 HUTCHISON ST OUTREMONT QUE	B A 2 CR 7 8983	LEZNOFF ARTHUR 610 DAWSON AVE TOWN OF MT ROYAL QUE	M SC 8 RE 9 8384
LEVITT MARGARET LUCIE 6915 FIELDING AVE APT 28 MONTREAL QUE	M S W 1 HU 4 6967	LEZNOFF CLIFFORD CLARK 370 WISEMAN AVE MONTREAL 8 QUE	B SC 3 CR 9 5817
LEVITT MILTON ARTHUR 3442 DECARIE BLVD MONTREAL QUE	B COM 4 HU 4 9906	LI CHOI KWAN MABEL LAIRD HALL 113 HENNESSY RD 1ST FL HONG KONG	B SC H EC 2
LEVY DAVID 1636 DUCHARME AVE OUTREMONT QUE	B A 4 CR 7 7413	LI MANDY MAN HAR ROYAL VICTORIA COLLEGE 12 LI SING 1ST FL HONG KONG	B SC 8
LEVY ERIC MARK 3567 UNIVERSITY ST MTL P O BOX 386 LUNENBURG N B	PH D 2 VI 9 3142		

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LI SAMUEL YAT KIM 4058 CLARK ST MTL QUE 633 CANTON RD 2ND FL KOWLOON HONG KONG	B SC 2	LINDEN BENJAMIN 4640 VEZINA AVE MONTREAL QUE	B ENG 1 RE 3 8138
LI VINCENT KUI DICK 3473 SHUTER ST MTL 12 LI SING ST 1ST FL HONG KONG	B ENG CIV 3	LINDSEY PETER F 3816 DRAPER AVE MONTREAL 28 QUE	B ENG MCH 3 HU 6 9469
LIKAKOS ARTEMIS ROYAL VICTORIA COLLEGE 141 WENTWORTH ST ST JOHN N B	B SC 3 VI 2 0334	LINDETROM KARIN SIRTITTA CRESCENT AVE HUDSON HEIGHTS QUE	B A 4
LIANG KAR KWAN 5000 CLANRANALD AVE APT 306 MONTREAL QUE	M ENG 2 HU 6 7772	LINDY IRVING 5270 MUSSET ST MONTREAL QUE	B ENG MCH 4 HU 8 3290
LISAN ASSEFA 3549 HUTCHISON ST MTL DEJ OMAR SEMETER SCHOOL ADDIS ABABA ETHIOPIA	B CL 3 VI 2 0834	LINO PAT LAM 3622 LORNE CRES APT 4 MONTREAL QUE	B ENG 1
LIBERTY JEAN BERNADETTE LAIRD HALL 641 RIVER RD PEMBROKE ONT	B SC M EC 4	LINGLEY MARY LOU 3480 ONTARIO AVE MTL 169 SUNSET DR LANCASTER N B	B SC P OT 2 VI 2 0044
LISMAN LOUIS 4785 BOUCHETTE APT 18 MONTREAL QUE	D D S 1 RE 3 4622	LINHOLM HELOI MAALI MACDONALD COLLEGE R R 5 MAGOG QUE	3 TCHRS
LICHTENBERGER GUNTER J 4654 ORLEANS MONTREAL QUE	M SC 1 CL 9 9546	LINKLETTER GRAEME A BRITTAIN HALL R R 1 SUMMERSIDE P E I	B SC AGR 4
LIEBERT JOHN ARTHUR 456 PINE AVE W MTL 6155 NORTH BAY RIDGE MILWAUKEE WIS USA	MD CM 1 VI 9 0284	LINDELL FRANCIS J 6030 COTE ST LUC RD APT 201 MONTREAL QUE	MED DIPL 2 HU 1 3733
LIEBICH IRENE 1774 CEDAR AVE MONTREAL QUE	M B W 1 WE 7 1341	LIPFELD GILBERT 4564 OLD ORCHARD AVE MONTREAL QUE	B ENG 1 HU 4 5463
LIEBMAN FRANK BRITTAIN HALL 4825 ST KEVIN AVE MONTREAL QUE	3 TCHRS 1	LIPPER CHARLES RALPH 490 STRATHCONA AVE WESTMOUNT QUE	B A 3 WE 3 9918
LIGHT MARVIN LAWRENCE 218 MAPLEWOOD AVE OUTREMONT QUE	B SC 2 CR 2 8077	LIPPER JOHN STEPHEN 490 STRATHCONA AVE WESTMOUNT QUE	B A 1 WE 3 9918
LIGHTBODY VEDA MAUREEN LAIRD HALL 9 FAIRVIEW COURT LINDSAY ONT	B SC M EC 4	LIGUORNIK THOMAS 3466 JEANNE MANCE ST APT 3 MTL 690 EGLINTON AVE E TORONTO ONT	B SC 2 VI 4 4943
LIGHTHALL DOREEN SANDRA 605 TAIT AVE VILLE ST LAURENT QUE	B SC 4 R1 7 8277	LISLE DOUGLAS JAMES R 107 FIELDFAIRE AVE BEAUNEPAIRE QUE	B SC AGR 1 OX 5 6902
LIGHTMAN ROBERT DALE 4902 VICTORIA AVE MONTREAL QUE	B A 2 HU 9 2626	LISOGRSKI JACK 777 QUERBES AVE OUTREMONT QUE	B ENG 2 CR 1 1725
LIGHTSTONE MARILYN ISOBEL 4710 QUEEN MARY RD APT 6 MONTREAL QUE	B A 3 RE 9 0187	LISTER RICHARD STANLEY 106 CLOVERDALE AVE DORVAL QUE	B SC 1 ME 1 1590
LILLIE JOHN BARRY 146 DOUGLAS SHAND AVE PTE CLAIRE QUE	MD CM 3 OX 7 2755	LITHWICK RUTH VICKI MCLENNAN HALL 357 SOMERSET ST E OTTAWA ONT	B SC P OT 3 VI 2 0044
LIMONARD THEUNIS P O BOX 28 30 MONTEE STE MARIE STE ANNE DE BELLEVUE QUE	PH D 2	LITMAN ABRAHAM 4608 COOLBROOK AVE MONTREAL QUE	B ENG COM 5 HU 6 4057
LIMONCHIK MORRIS 3642 ST LAWRENCE BLVD MONTREAL 18 QUE	B ED P ED 3 VI 2 4759	LITMAN ELIZABETH 7465 BLVD DE L ACADIE MONTREAL 15 QUE	B SC 1 CR 1 8880
LIMPERIS LIMPERIS 1247 CITY HALL AVE MONTREAL QUE	B ENG 2 UN 6 0797	LITTLE ELIZABETH HELEN LAIRD HALL NORTH HATLEY QUE	B SC AGR 4
LIN SYLVIA JUNG FIN 418 PINE AVE W APT 17 EMPIRE COURT APT A 7TH FL HONG KONG	MD CM 3 AV 8 8856	LITTLE JOHN ELLIOTT 3434 MCTAVISH ST MTL 1301 DELAUNE AVE QUEBEC CITY QUE	B ENG MCH 4 VI 2 4492
		LITTLE JOHN MILTON 3466 MCTAVISH ST MTL 71 DEVON RD BAIE D URFFEE QUE	MD CM 3 AV 8 9533

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LITTLE JOHN ROBERT MACDONALD COLLEGE R R 2 MARKHAM ONT	B SC AGR 1	LOHSE ROBERTA LEE LAIRD HALL 30 ELMWOOD AVE SENNEVILLE QUE	B SC H EC 4
LITTLE ROBERT JAMES BRITTAIN HALL 1096 FORGET AVE BILLY QUE	M E D DIP	LOKEN OLAV H 3609 UNIVERSITY ST MONTREAL 2 QUE	PH D 3 AV 8 6307
LITTLE SUSAN JANE 8175 BLOOMFIELD AVE MONTREAL QUE	B A 1 CR 2 5684	LONDON ELEANOR FLORENCE 4070 KENT AVE MONTREAL QUE	B A 4 RE 8 0868
LITTLE THOMAS D ARCY BRITTAIN HALL 60 45TH AVE LACHINE QUE	B SC AGR 4	LONGHURST MARK FRANKLIN 125 LINWOOD CRES TOWN OF MT ROYAL QUE	B A 2 RE 3 2204
LITTLE THOMAS DAVID BRITTAIN HALL 1096 FORGET AVE BILLY QUE	2 TCHRS	LONGSTAFF STEPHEN ALAN FIELD HOUSE 70 RIVER WOOD PKWY TORONTO 18 ONT	B A 2
LITVACK BERNARD MILTON 5203 ISABELLA AVE MONTREAL QUE	B SC 2 HU 6 7874	LONGTIN JEAN F 10870 BERRI ST MONTREAL QUE	B CL 3 DU 7 0715
LITVACK NAOMI MILLER 2805 DARLINGTON PL MONTREAL QUE	PARTIAL RE 8 4535	LONN ROSALIE 1 LAMARCHE ST STE ANNE DE BELLEVUE QUE 4952 MAYFAIR MONTREAL QUE	3 TCHRS
LITVACK MORTON JOSEPH 5640 WOODBURY AVE MONTREAL 26 QUE	B CL 3 RE 7 3830	LOO CHUN 2065 BISHOP ST MTL 544 ST ANTOINE ST LA TUQUE QUE	B ENG EL 3 VI 2 0723
LIVINGSTONE SAMUEL JAMES 10 CHURCH ST CHATEAUGAY N Y USA	B D 3	LORANGER MARIE AIMEE J 2320 LINCOLN AVE APT 18 MONTREAL 25 QUE	B CL 4 WE 3 7749
LIVTEC OREST ALEXANDER 766 ALEPIN AVE LASALLE QUE	M E D DIP DO 7 0116	LORD THOMAS DYSON 331 WHIMSEY AVE ST LAMBERT QUE	B ENG 1 OR 1 0298
LLOYD MONA JEAN ROYAL VICTORIA COLLEGE 200 BLAKE RD HAMDEN CONN USA	B SC 4 VI 2 0265	LORENZETTI DARIO W C 5732 MOLSON ST MONTREAL QUE	MD CM 4 LA 2 9488
LO EDMOND KAI WAI 3610 DUROCHER ST APT 9 6 TAK HING ST 3RD FL KOWLOON HONG KONG	MD CM 1 VI 9 5035	LORENZI INGRID ILZE 7555 LOUIS HEBERT MONTREAL QUE	B SC 1 RA 8 6497
LO MEI CHIAU MONTREAL GENERAL HOSP 1650 CEDAR AVE MONTREAL QUE	PH D 2	LORRAIN VOLANDE 10585 D AUTEUIL APT 2 MONTREAL QUE	B H 2 DU 8 3829
LO TING WA 3512 SHUTER ST MTL 397 HENNESSY RD 3RD FL HONG KONG	B ARCH 4	LORTIE HELENE 5585 GATINEAU MONTREAL QUE	M SC 2 RE 8 4893
LOBBAN RUBY 3558 LORNE AVE APT 3 MONTREAL QUE	B A 2 AV 8 6518	LOUGH ANDREA JANE ROYAL VICTORIA COLLEGE 85 FAIRY AVE HUNTSVILLE ONT	B ED P ED 4 VI 2 0526
LOBDELL DAVID W BRITTAIN HALL P O BOX 137 SAWYERVILLE QUE	B ED 2	LOUIZOS DEMETRIUS GEORGE 3553 DUROCHER ST APT 302 MONTREAL QUE	M ENG 1 VI 5 5630
LOCHHEAD JOHN ALBERT 4291 SHERBROOKE ST W WESTMOUNT QUE	MD CM 1 WE 2 5628	LOUTTIT RAYMOND GEORGE APT A 9 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	M E D DIP
LOEWENHEIM JULIET 1 BELLEVUE AVE WESTMOUNT QUE	B SC 2 HU 8 7825	LOVE MARY SUSANNE ROYAL VICTORIA COLLEGE 26 HERBERT ST NEW GLASGOW N S	B A 2
LOFFT JOHN GORDON STE ELIZABETHS HOSP WASHINGTON 20 D C USA 1297 REDPATH CRES MONTREAL 25 QUE	MED DIPL 4	LOVE NANCY KATHRYN MACDONALD COLLEGE 251 MAREH ST NEW GLASGOW N S	2 TCHRS
LOFFT MICHAEL MILES 1297 REDPATH CRES MONTREAL 25 QUE	B A 3 VI 5 3056	LOVELL RICHARD ARLINGTON 1180 BLEURY ST MONTREAL 2 QUE	PH D 1 UN 6 3611
LOHRENZ JOHN GEORGE 4451 HARVARD AVE MONTREAL QUE	MED DIPL 3 HU 8 6494	LOVEYS JOHN BRITTAIN HALL BRUNELLE MILESTONE CROSS CHUDLEIGH B DEVON ENGLAND	B SC AGR 2
		LOVI ANTHONY OSCAR 6300 TRANS ISLAND AVE MONTREAL QUE	B ENG EL 3 RE 3 5949

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LOVINGER ALEX 1280 BERNARD AVE W APT 6 MONTREAL QUE	B ENG 2 CR 1 3774	LUKE HOWARD JOSEPH 4916 JEAN BRILLANT MONTREAL QUE	B A 4 HE 8 1325
LOW ERREAN KATHLEEN 4007 COTE DES NEIGES #B APT B MTL 709 ARDMORE RD W PALM BEACH FLA USA	B COM 2 WE 5 1712	LUKE SUSAN JOSEPHINE ROYAL VICTORIA COLLEGE P O BOX 280 HUDSON QUE	B COM 2 VI 2 0598
LOWE LAWRENCE EDWARD BOX 187 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	PH D 2	LUKE TREVOR MACDONALD 4551 OLD ORCHARD AVE MONTREAL QUE	M SC 1 HU 4 2774
LOWNE PETER B 561 ALGONQUIN AVE TOWN OF MT ROYAL QUE	B SC 2 RE 7 9732	LUKOSKY ARLENF MACDONALD COLLEGE 6458 MACDONALD AVE MONTREAL QUE	3 TCHRS
LOWMYER GORDON READMAN 33 CHESTERFIELD AVE WESTMOUNT QUE	PH D 2 HU 9 2240	LUM FEE JOHN ALLAN 421 PRINCE ARTHUR ST W MAIN RD CHAQUANAS TRINIDAD W I	B SC 3 VI 5 8370
LU LORENZA 4692 JEANNE MANCE ST MTL 248 MONTEVERDE AVE DAVAO CITY PHILIPPINES	M SC 1 AV 8 3287	LUM KAM MANKONG GEORGE 3592 DUROCHER ST MTL FYZABAD TRINIDAD W I	D D 2 3 VI 4 0359
LUARD JOHN CHRISTOPHER E 3468 HUTCHISON ST MTL 646 FLAMINGO DR FORT LAUDERDALE FLA USA	B A 2	LUMSDEN EDWARD RAY 1630 LEPINE ST VILLE ST LAURENT QUE	B ENG 2 RI 7 3079
LUBIN MARTIN 855 ROCKLAND AVE OUTREMONT QUE	B A 3 CR 7 8961	LUNN WILLIAM HENRY W 4140 COTE ST CATHERINE APT 5 MONTREAL QUE	PH D 2 RE 7 9782
LUBINSKY IRENE P O BOX 90 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE 40 5 MAPLE AVE	PH D 3	LUPU ALEXANDER JON 6010 DECELLES AVE APT 9 MONTREAL QUE	B ENG 2 RE 3 0833
LUCAS JOSEPH CLAUDE M 3980 COTE DES NEIGES #B APT A 51 MONTREAL QUE	B COM 2 WE 2 6836	LUSIER LUCILLE MARY G 5714 MONKLAND AVE MONTREAL QUE	B SC 3 HU 1 5871
LUCAS PETER PAUL 4655 BONAVIETA AVE MONTREAL 29 QUE	B SC 1 HU 4 6962	LUTCHMANSINGH KELVIN A 3524 SHUTER ST MTL 5 HARRIS ST SAN FERNANDO TRINIDAD T W I	B A 3 VI 4 0084
LUCCIOLI GIOVIANO M 3815 LACOMBE AVE MTL VIA X X SEHEMBRE 13 FOLIGNO ITALY	M SC 2 RE 8 4711	LUTCHMANSINGH LARRY D 3445 PEEL ST MTL SOUTHERN MAIN RD CALIFORNIA TRINIDAD W I	B A 2 VI 5 9462
LUCE JAMES EDWARD 5960 VICTORIA AVE APT 4 MONTREAL 26 QUE	PH D 4 RE 8 1876	LUTTMAN RACHEL MARY ROYAL VICTORIA COLLEGE 535 KENWOOD AVE OTTAWA ONT	B SC 4 VI 2 0526
LUCIS OJARS JANIS 76 MONIQUE VILLE DE BROSSARD QUE	MD CM 3 OR 6 4004	LUUS IVY 1472 BISHOP ST APT 8 MTL 410 SOUDAN AVE TORONTO 7 ONT	BRAD DIP EV 8 7321
LUCK DAVID WILLIAM 3473 UNIVERSITY ST MTL 600 JARVIS ST TORONTO 5 ONT	M A 1	LUXENBERG PAULA FREIMAN ROYAL VICTORIA COLLEGE 72 OLD FOREST HILL RD TORONTO ONT	B A 4 VI 2 0526
LUDANYI FRANK 3549 LORNE AVE MONTREAL QUE	M A 1 VI 9 0224	LYKKE SEEST BIRGER P 629 PRINCE ARTHUR ST W JARLESBOGVEIEN 3 SNESTAD OSLO NORWAY	B ENG 2 VI 9 0739
LUFF CHRISTOPHER SIMS 3653 UNIVERSITY ST MTL 1219 MAIN ST LYNNFIELD CENTRE MASS USA	B SC 4 VI 2 2073	LYLE SEAFORTH M 363 WALNUT AVE ST LAMBERT QUE	M ENG 2 OR 1 8974
LUIGAR DENNIS EDWARD 437 MELROSE AVE VERDUN 19 QUE	M S D DIP PO 6 4369	LYNCH JOHN 4600 ROYAL AVE MONTREAL QUE	MED DIP HU 8 7761
LUI GORDON HOCK CHUNG 3472 SHUTER ST APT 3 MTL 3 VILLAGE TERR HAPPY VALLEY HONG KONG	B ENG EL 4 VI 2 3049	LYNCH WILLIAM WARREN 5485 AVONMORE APT 18 MONTREAL 29 QUE	B C L 4 HU 9 1340
LUI PETER WOON TING 3511 LORNE AVE APT 8 MTL 111 BONHAM STRAND E HONG KONG	B ENG 1	LYNE DANIEL COLMAN 425 MT ROYAL BLVD W MTL CASTLE HOUSE BERKEHAVEN CO CORK IRELAND	M A 2 CR 4 7681
LUKACS SANDOR BRITAIN HALL 32010 MAPLEWOOD AVE MONTREAL QUE	B SC AGR 4	LYON JOHN LEONE 5200 CORONATION AVE MONTREAL QUE	B ENG CH 3

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MACK RUTH K STEWART HALL P O BOX 818 LENOXVILLE QUE	3 TCHRS	MACLAREN GEORGE ROY 3653 UNIVERSITY ST MTL BOX 149 BUCKINGHAM QUE	B A 3 VI 2 2073
MACKAY DIANA MARGARET 3045 CEDAR AVE MONTREAL QUE	B A 2 WE 2 9060	MACLAREN HEATHER BELL ROYAL VICTORIA COLLEGE FERNWOOD FRANKLYN ST HALIFAX N S	B A 2 VI 9 0858
MACKAY DONALD GORDON 42 DUFFERIN RD HAMPSHIRE QUE	B ENG PHY 3 HU 6 3537	MACLAREN WENDY BELL ROYAL VICTORIA COLLEGE FERNWOOD FRANKLYN ST HALIFAX N S	B A 2 VI 2 0113
MACKAY DOUGLAS GRAHAM 3508 UNIVERSITY ST MTL 67 STE URSULE ST QUEBEC CITY QUE	B D 3 VI 5 4873	MACLEAN DUNCAN IVAN WILSON HALL CALUMET QUE	B A 1 VI 4 0624
MACKAY GEORGE DAVID M 5040 BARCLAY AVE APT 6 MONTREAL QUE	PH D 2 RE 9 7949	MACLEAN JOHN NIGEL DOUGLAS HALL POINTE A PIERRE TRINIDAD W I	B SC 2 VI 4 0977
MACKAY JOHN KELVIN 2010 CHOMEDY ST MTL 994 SECOND AVE NIAAGRA FALLS ONT	M SC 1 WE 3 7144	MACLEAN JUDITH MARIAN ROYAL VICTORIA COLLEGE ELM AVE HUDSON HEIGHTS QUE	B A 3 VI 9 0858
MACKAY MARY JEAN 4115 GRAND BLVD MONTREAL 28 QUE	B ED 4 HU 1 9127	MACLEAN MARGARET E 12 BLANCHARD RD TORONTO 12 ONT	B SC 2 VI 2 0495
MACKAY PETER ANDREW 3045 CEDAR AVE MONTREAL QUE	MD CM 1 WE 2 9060	MACLEAN MORA BERYL 2057 MANSFIELD ST APT 6 483 EDISON AVE OTTAWA ONT	M A 1 AV 8 3829
MACKEAN BOYD EDMUND 3581 UNIVERSITY ST MONTREAL 2 QUE	M SC 2 VI 9 1368	MACLEAN SARA SALISBURY ROYAL VICTORIA COLLEGE 12 PINE HILL RD TORONTO ONT	B A 1 VI 2 0571
MACKELLAR WILLIAM JAMES 172 RIVERMERE RD ST LAMBERT QUE	B ENG 1 OR 1 2091	MACLELLAN ROBERT STANFORD 631 PRINCE ARTHUR ST W APT 4 MTL 132 WINDERMERE AVE TORONTO ONT	D D S 4 VI 9 1560
MACKENZIE ALLAN 475 PINE AVE W MTL 637 ST JOSEPH ST CHAMBLY BASSIN QUE	B SC 4 VI 4 4270	MACLEOD DONALD LEE 8200 24TH AVE VILLE ST MICHEL QUE	B ARCH 6 RA 7 1857
MACKENZIE BRENDA E 27 WOLSELEY AVE S MONTREAL WEST QUE	B SC 3 HU 1 2989	MACLEOD HEATHER MARGARET ROYAL VICTORIA COLLEGE BOX 70 MASSON QUE	B SC 3 VI 9 0120
MACKENZIE BRIAN WALLACE 426 REVERE AVE TOWN OF MT ROYAL QUE	B ENG M 4 RE 8 8539	MACLEOD IRENE MARGARET 631 PRINCE ARTHUR ST W APT 9 MONTREAL QUE	PARTIAL VI 2 7643
MACKENZIE EVELYN D 169 HIGHFIELD AVE TOWN OF MT ROYAL QUE	B A 2 RE 8 1885	MACLEOD JOHN CLARK BRITAIN HALL BOX 22 DUNVEGAN ONT	B SC AGR 3
MACKENZIE JOYCE ELIZABETH MACDONALD COLLEGE ST PIERRE BAPTISTE MEGANTIC COUNTY QUE	M S D DIP	MACLEOD MARILYN GORDON MCLENNAN HALL WHYCOMBAGH N S	B SC P OT 3 VI 2 0044
MACKIE DANIEL ARTHUR 1191 CRESCENT ST APT 5 MONTREAL QUE	B ENG MCH 4 UN 1 3785	MACLEOD PATRICIA R ROYAL VICTORIA COLLEGE P O BOX 446 11 EMBURDON ST HAWKESBURY ONT	B SC 2 VI 2 0327
MACKINNON HUGH NEIL 3592 UNIVERSITY ST MONTREAL QUE	B SC 3 VI 9 0328	MACMILLAN JUDITH HELEN 455 OAKDALE AVE TOWN OF MT ROYAL QUE	B A 2 RE 7 7184
MACKINNON JOY CHRISTINE 1009 SHERBROOKE ST W MTL BOX 560 KENTVILLE KINGS CO N S	B SC P OT 2 VI 2 7444	MACMILLAN DONALD KENNETH 39 BAYVIEW AVE LAKESIDE QUE	B A 1
MACKINNON JOYCE R 3480 ONTARIO AVE MTL 19 PASSMORE ST CHARLOTTETOWN P E I	B SC P OT 3 VI 2 0044	MACMILLAN ELIZABETH A 135 LAZARD AVE TOWN OF MT ROYAL QUE	B A 2 RE 7 4037
MACKINNON MARGARET JOAN ROYAL VICTORIA COLLEGE 51 INGLES ST HALIFAX N S	B A 3	MACMILLAN IAN MALCOLM 135 LAZARD AVE TOWN OF MT ROYAL QUE	B SC 1 RE 7 4057
MACLACHLAN DONALD L MACDONALD COLLEGE WILLIAMSTOWN ONT	B SC 2	MACMILLAN MARGARET J 1260 REDPATH CRES MTL R R 1 BOX 52 ALEXANDRIA ONT	GRAD DIP
MACLAGAN HOPE FOES 43 50TH AVE LACHINE QUE	M A 1 ME 7 8252		

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MACMILLAN ROBBIN ELPETH 779 OSBORNE AVE VERDUN 19 QUE	B A 2 PO 8 7855	MAGNAN WALTER GASTON P 3765 DUPUIS AVE APT 11 MONTREAL 26 QUE	B C L 4
MACNAUGHTON DONALD A BRITTAIN HALL R R 4 HUNTINGDON QUE	B SC AGR 4	MAGNUS MAXWELL RUDYARD 3506 UNIVERSITY ST MTL ORACALUSSA JAMAICA W I	B ENG EL 4 VI 4 0624
MACNEIL DONALD G MACDONALD COLLEGE LANARK ANTIGONISH N S	B SC AGR 4	MAHABIR FRANK LIONEL 3577 LORNE AVE APT 12 8 COBLENTZ GARDENS ST ANNE PORT OF SPAIN TRINIDAD T W I	B COM 4
MACNEILAGE PETER FRANCIS 1534 PINE AVE W MTL PURIKA NORTH ISLAND NEW ZEALAND	PH D 2	MAHABIR ROY NEVILLE 3511 HUTCHISON ST MTL 8 COBLENTZ GARDENS ST ANNE PORT OF SPAIN TRINIDAD T W I	B ARCH 4
MACNEILL ANNABEL DAISY 2222 ST MATTHEW ST MONTREAL QUE	B D 3 WE 3 9220	MAHAFFY DAVID FREDERICK 3514 HUTCHISON ST APT 2 MONTREAL QUE	B SC 3
MACPHAIL VIRGINIA R L 3480 ONTARIO AVE MTL CORNWALL P E I	B SC P OT 3 VI 2 0044	MAHER ARTHUR T L 900 ABBOTT ST MTL 88 NATHAN RD APT B 12TH FL KOWLOON HONG KONG	B ENG 1
MACPHERSON ALAN G 3495 PEEL ST APT 2 MTL 38 GLENDEVON RD EDINBURGH SCOTLAND	PH D 3 VI 4 7957	MAHEUX BRO MAGLOIRE F S C 2075 PLESSIS ST MONTREAL QUE	PH D 2 LA 1 9010
MACPHERSON ALEXANDER S 3474 COTE DES NEIGES RD APT 23 MONTREAL QUE	MED DIPL 3 WE 2 8714	MAHFOUZ MOHAMED ABDEL H 534 SHERBROOKE ST W APT 6 MTL 7 FARID WAGDY ST MAHIAL CAIRO EGYPT	M SC 1 VI 2 0757
MACPHERSON SHEENA M ROYAL VICTORIA COLLEGE 3474 COTES DES NEIGES MONTREAL QUE	B A 1 VI 9 0030	MAHINDRU NARINDAR NATH 480 PRINCE ARTHUR ST W MONTREAL 2 QUE	B ENG 2 VI 9 2840
MACRAE HERBERT FARQUHAR BOX 53 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	PH D 4	MAHMUD KHALIL 1345 REDPATH CRES MTL 103 CHILTON ST CAMBRIDGE 38 MASS USA	B L S 1 AV 8 6712
MACRAE KEITH 275 32ND AVE LACHINE QUE	B ENG 2 ME 7 0301	MAHONEY ROBERT J 2136 VENDOME ST APT 14 WATERVILLE NEW YORK USA	D U S 2
MACSWEEN DONALD JOHN A 6216 MONKLAND AVE MONTREAL QUE	B C L 2 HU 6 5134	MAIDANIW PABLO 4982 KING EDWARD AVE MONTREAL QUE	B ENG 1 HU 4 6816
MACTAGGART DONALD JOHN 755 UPPER LANSDOWNE AVE WESTMOUNT QUE	B ENG EL 4 HU 4 0434	MAILLOUX MARCEL BOX 58 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	M SC 2
MACTAGGART SHEILA BOND 755 UPPER LANSDOWNE AVE WESTMOUNT QUE	B A 2 HU 4 0434	MAILLY MARIE HELENE C 720 46TH AVE LACHINE QUE	B A 1 ME 7 9476
MACZKO JOSEPH FRANK 475 PINE AVE W MTL 142 MAXWELL ST BARNIA ONT	B COM 4 VI 4 4270	MAINQUY JOAN PATRICIA A 4900 ROSLYN AVE MONTREAL QUE	PARTIAL RE 8 6675
MAGASANIK ERY 4525 ROYAL AVE MONTREAL 28 QUE	B ENG CH 3 HU 1 6204	MAIR BARBARA EVE MAIR VICTORIA COLLEGE BOX 91 CONSTANT SPRING P O JAMAICA W I	B ED P ED 4 VI 2 0180
MAODER DAVID MICHAEL 597 LANSDOWNE AVE WESTMOUNT QUE	B SC 3 HU 6 8057	MAIR TREVOR ANTHONY M 500 PINE AVE W MTL B RETIREMENT CRES KINGSTON 5 JAMAICA W I	B SC 2
MAGEE ELEANOR EILEEN 4656 SHERBROOKE ST W APT 9 MONTREAL QUE	M L S 1 WE 2 1376	MAIS MATTHEW E J 5725 IBERVILLE ST MONTREAL QUE	B A 2 LA 2 5185
MAGEE WILLIAM R BRITTAIN HALL FIFTH ST MORRISBURG ONT	B SC AGR 2	MAJAK WALTER 555 6TH AVE LACHINE QUE	B SC 1 ME 7 2258
MAGIL ROSALIE SHARON 4345 KINGSTON AVE MONTREAL QUE	B SC 1 HU 1 4611	MAJAMLANI TEUVO JOHANI 23 9TH AVE ROXBORO QUE	B SC 1 MU 4 2922
MAGILL FRANK 6750 DE VIMY AVE MONTREAL QUE	MD CM 4 RE 8 8846		
MAGLADRY JEAN VIVA 3680 ONTARIO AVE APT 9 NAVAN ONT	GRAD DIP VI 4 0902		

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MAK KAM WING FREDERICK 3534 LORNE ST APT 9 MTL 11 KESWICK ST GRD FL CAUSEWAY BAY HONG KONG	B SC 1	MALUS MICHAEL HAROLD 5119 LACOMBE AVE MONTREAL QUE	B A 4 RE 8 7384
MAK SHIU HUNG 1441 DRUMMOND ST MTL 37 WING ON ST HONG KONG	B SC 4	MALUS NORMAN LEONARD 5119 LACOMBE AVE MONTREAL QUE	B C L 3 RE 8 7384
MAKELA PEKKA OLAVI 2234 SOUVENIR ST MONTREAL QUE	B ENG EL WE 3 4076	MALVET HELENE ANNA BROSSEAU STA VILLE DE BROSSARD QUE	B A 3 OR 6 5631
MAKINWA STEPHEN A 3521 DUROCHER ST MTL 104 OKEDASA ST ONDO NIGERIA W AFRICA	B COM AV 8 9775	MALVET REET BROSSEAU STA VILLE DE BROSSARD QUE	B SC 1 OR 6 5631
MALAMUD BETTY LUE 5672 CLANNANALD AVE MONTREAL QUE	M E W RE 3 5504	MAMELAK MORTY 4568 HUTCHISON ST MONTREAL QUE	MD CM 1 CR 6 8810
MALCOLM ANNE LOUISE 628 GROSVEENOR AVE WESTMOUNT QUE	B COM HU 1 4691	MANCINI ANTHONY 1814 JOLICOEUR ST MONTREAL 20 QUE	B ENG 1 PO 7 0409
MALCOLM DONALD ANDREW C 81 HUDSON AVE MTL 136 CHARLOTTE ST SAINT JOHN N B	MED DIPL RE 3 1407	MANEL MAURICE 4885 COTE ST CATHERINE APT 11 MONTREAL QUE	B A 4 RE 8 4576
MALCOVITCH LESLIE OHRYN DOUGLAS HALL 904 SECOND ST KANSACK SASK	B SC 4 VI 4 0977	MANELSKI ROBERTO ENRIQUE 495 PRINCE ARTHUR ST W APT 25 MTL C O ATLANTIS VENEZOLANA APARTADO 344 VALENCIA ESTADO CARABOBO VENEZUELA	B SC 3 VI 4 3139
MALIK KHALID MEHMUD 3477 A HUTCHISON ST APT 9 MONTREAL QUE	B ENG CIV VI 4 9814	MANGEL ROMAN 5403 JEANNE MANCE ST MONTREAL QUE	MD CM 1 CR 6 7506
MALINA MORTY 765 CHAMPAGNEUR AVE APT 2 OUTREMONT QUE	B ENG CR 9 8655	MANIATIS NICK 3471 PEEL ST MONTREAL QUE	B ENG CIV 4 VI 9 0133
MALIS HOWARD 5613 PALMER AVE COTE ST LUC QUE	B SC 1 HU 9 6327	MANKIEWICZ JACQUELINE M 760 WILDER AVE OUTREMONT QUE	B A 4 RE 1 2277
MALKINSON ABBY N 1745 NORTH AVE MONTREAL QUE	B A 3 RE 8 3258	MANKIEWICZ STANLEY ROYAL VICTORIA HOSPITAL 311 FURBY ST WINNIPEG MAN	MED DIPL 2
MALLAMO JOSEPH ROBERT 7566 ST DENIS ST MONTREAL QUE	B ENG CIV 5 CR 6 4563	MANN SANDRA LOUISE C STEWART HALL 91 SOMERSET RD BAIE D URREE QUE	B SC M EC 3
MALLORY CAROL ANN 51 ROOSEVELT APT 4 TOWN OF MT ROYAL QUE BOX 335 MONTCTON N B	GRAD DIP RE 9 8630	MANN STUART KEITH 14 LAKESIDE AVE PTE CLAIRE QUE	B SC 2 OX 5 3734
MALLOUGH STANLEY EVERET 43 DONEGANI VALOIS QUE	H S D DIP OX 7 0305	MANNARD GEORGE WILLIAM 5481 QUEEN MARY RD APT 16 MONTREAL QUE	PH D 2 HU 9 4538
MALONE GEORGE EDWARD WILSON HALL 57 KING ST THETFORD MINES QUE	B ENG EL 3 VI 4 0624	MANSSELL JOAN G 3455 COTE DES NEIGES RD APT 216 MTL 37 LEE AVE TORONTO ONT	GRAD DIP WE 7 5792
MALONEY GERALD FRANK 312 BERGVEIN APT 8 LABALLE QUE	B ENG MCH 4 DO 6 4764	MANSFIELD WILLIAM NELS 890 KENTWORTH RD MONTREAL 16 QUE	M SC 2 RE 7 6443
MALOWANY ALFRED STEPHEN 3506 DUROCHER ST APT 7 238 MONTCAIM ST BERTHIERVILLE QUE	M ENG 1	MANSON RODERICK ANTHONY 4855 HARVARD AVE APT 2 MONTREAL QUE	M S W 1 HU 9 6760
MALOWANY ALLAN JOSEPH 3306 DUROCHER ST APT 7 238 MONTCAIM ST BERTHIERVILLE QUE	B SC 4	MANSOUR ROBERT JOHN 1625 LAIRD BLVD TOWN OF MT ROYAL QUE	B COM 4 RE 3 3476
MALOWNEY MYRNA LYNN MACDONALD COLLEGE 12090 RIVERSIDE DR TEGUMSEH ONT	B SC H EC 1	MANSOUR VIRGINIA MARY 1625 LAIRD BLVD TOWN OF MT ROYAL QUE	H S D DIP RE 3 3476
MALUS AVRUM Z 5803 TRANS ISLAND AVE MONTREAL 29 QUE	B A 3 RE 3 8063	MANTEAW SAMUEL H 3490 HUTCHISON ST MONTREAL QUE	B SC 3 VI 2 5580
		MANU JOSEPH EVANS A 3437 SHUTER ST MONTREAL QUE	M A 2 VI 9 4096

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MANZO ANTHONY P 8345 CASGRAIN AVE MONTREAL QUE	B SC 1 DU 8 2135	MARKMAN MIREL 1630 VAN HORNE AVE APT 4 OUTREMONT QUE	3 TCHRS CR 1 9916
MARAVEI ANGELO 4289 HENRI JULIEN AVE MONTREAL QUE	B ENG 2 AV 8 3824	MARKO ANNE MARIE 3492 PRUD HOMME AVE MTL 2227 RAE ST REGINA SASK	M A 2 HU 9 2006
MARAVEI DANIEL A 4289 HENRI JULIEN AVE MONTREAL QUE	B ENG EL 4 AV 8 3824	MARKOWITZ NORMA 3106 BRIGHTON AVE MONTREAL QUE	B COM 2 RE 7 7500
MARCHAND JOSEPH G M 690 85TH AVE APT 1 POINTE AUX TREMBLES QUE	B ENG EL 3 MI 5 4057	MARKS BRENDA LEE 6615 34TH AVE MONTREAL 36 QUE	2 TCHRS
MARCHANT CAROL LYNN 4432 MADISON AVE MONTREAL QUE	B SC 2 HU 4 4538	MARKS MELVIN ISAAC 5530 CLANRANALD AVE MONTREAL 29 QUE	B SC 3 RE 7 4537
MARCHILDON E KEITH 940 THOMAS CHAPAIS ST MARTIN QUE	PH B 2 MU 1 5423	MARKEL SIDNEY 5211 GRENIER AVE MONTREAL 28 QUE	B ENG 1 HU 6 3282
MARCINKOWSKA ELIZABETH M 4131 COTE DES NEIGES RD APT 8 MONTREAL QUE	B A 2 WE 7 3602	MARKEB ALLEN DAVID 5015 ROSLYN AVE MONTREAL 28 QUE	B ENG 1 RE 8 8291
MARCO MICHAEL BRITTAIN HALL 1 MARYWOOD SQ GLASGOW SCOTLAND	B SC AGR 3	MARLIN RANDAL ROBERT A 419 LANSDOWNE AVE WESTMOUNT QUE	M A 1 WE 5 4170
MARCOVITCH ARTHUR J 5211 ROSEDALE AVE MONTREAL QUE	B CL 2 HU 9 3168	MARON ROBERT IVAN 800 KENSINGTON AVE APT 1000 WESTMOUNT QUE	B ENG 1 WE 3 0926
MARCOVITCH STEPHEN I 5087 VAN HORNE AVE MONTREAL QUE	B A 4 RE 8 7113	MAROSIS GEORGE JAMES J 3660 LORNE CRES APT 6 MTL 630 BAYWOOD ST NORTH BAY QNT	B SC 1 AV 8 0157
MARCUS ANTHONY MARTIN MONTREAL GENERAL HOSP PSYCHIATRY DEPT MONTREAL QUE	MED DIPL 3	MAROSH ROSLYN 5674 MONKLAND AVE MONTREAL QUE	B A 2 HU 6 3060
MARDEN ALBERT 403 E CARLISLE AVE MILWAUKEE 17 WIS USA	MD CM 1	MAROVITCH SYDNEY BRITTAIN HALL 5275 ROSEDALE AVE MONTREAL QUE	2 TCHRS 2
MARGARITIS AROYRIOS 3552 HUTCHIBSON ST MONTREAL QUE	B ENG 2 AV 8 3805	MARPOLE DEREK GIFFORD F 1340 REGENT RD APT 10 TOWN OF MT ROYAL QUE	MD CM 1
MARGETTS BARRY DESMOND W 582 COTE VERTU MTL RED LION HARTSPRING LANE ALDENHAM NR WATFORD HERTS ENGLAND	B ENG MCH 4 RI 7 3857	MARQUIS ROLAND PIERRE 3557 CORNE ST MTL 2064 BOURBONNIERE ST BILLYRY QUE	B ARCH 3
MARGOLESE BARRY JACK 5568 BORDEN AVE MONTREAL QUE	B ENG AM 3 HU 4 9307	MARR ALLAN ROBERT 3506 UNIVERSITY ST MTL P O BOX 503 SAINT JOHN N B	B ARCH 3 VI 4 0624
MARGOLESE IRWIN 635 OUTREMONT AVE OUTREMONT QUE	D D S 3 CR 1 6646	MARS HAROLD 5022 COTE DES NEIGES RD APT 2 MONTREAL 26 QUE	MD CM 4 RE 7 2208
MARGOLESE MELVYN D 869 DOLLARD AVE OUTREMONT QUE	B ENG 2 CR 7 2292	MARS PATRICK JAMES 3482 MCTAVISH ST MTL MONTREAL QUE	B COM 2 VI 9 5965
MARGOLESE RICHARD GORDON 4140 COTE ST CATHERINE APT 16 MONTREAL QUE	MD CM 4 RE 8 1554	MARSDEN BARBARA ANNE 3215 VAN HORNE AVE APT 1 MONTREAL QUE	M S W 1 RE 7 8378
MARGOLIAN HART 6095 HUTCHISON APT 107 270 GEORGE ST FREDERICTON N B	B CL 2 RE 7 2571	MARSDEN DONALD ARTHUR 3215 VAN HORNE AVE APT 1 MONTREAL QUE	PH D 2 RE 7 8378
MARGOLICK LIONEL 4745 LACOMBE AVE MONTREAL QUE	B A 1 RE 9 5667	MARSH DAVID CAMPBELL MACDONALD COLLEGE 57 LASCELLES BLVD TORONTO 7 ONT	B SC AGR 4
MARQUIS BARRY 249 SHERATON DR MONTREAL WEST QUE	B A 3 HU 9 7159	MARSHALL ANN 375 44TH AVE LACHINE QUE	B ED 4 ME 7 4141
MARK TOMMY SHEW KUEV 3590 CLARK ST MONTREAL 18 QUE	B SC 4 VI 9 7160	MARSHALL ARTHUR RICHARD 5998 TERRESOONNE AVE MONTREAL QUE	M A 1 HU 8 5067
MARKEY JOHN FREDERICK 235 PORTLAND AVE TOWN OF MT ROYAL QUE	B SC 2 RE 7 1496	MARSHALL DAWN ELIZABETH 4396 MAYPAIR AVE MONTREAL 28 QUE	B SC N 4 HU 4 7940

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MARSHALL JOYCE ANNIE 7400 CHURCHILL RD MONTREAL QUE	PH D 3 RE 7 3420	MARVIN LINDA L 232 STONEHEDGE DR BEACONSFIELD QUE	B SC H EC 2 OX 5 5250
MARSHALL LIANA MARIETTA 28 COOLBREEZE AVE PTE CLAIRE QUE	B SC 3 OX 5 2897	MARVIN MAVIS 3553 DUROCHER ST APT 503 MONTREAL QUE	B SC 2 VI 4 7041
MARSHALL MICHAEL KING 4396 MAYFAIR AVE MONTREAL 28 QUE	B SC 3 HU 4 7940	MARWICK LORNA CATHERINE 7128 DE LANAUDIERE ST MONTREAL QUE	2 TCHRS 1
MARSHALL PETER J 3473 UNIVERSITY ST MTL 2 ST STEPHENS RECTORY 99 BELLEVUE AVE TORONTO 2 ONT	B SC 3 VI 9 1791	MARYNIAK OLEH MYCHAIL B 7117 13TH AVE MONTREAL 38 QUE	B SC 4 RA 1 5105
MARTEL RENE ROBERT 5965 36TH AVE MONTREAL 36 QUE	PH D 3 CL 5 1682	MASELLA ANTONIO 7697 SHAUGHNESSY VILLE ST MICHEL QUE	B SC 1 RA 7 9818
MARTIN ALLAN JOSEPH 4031 MELROSE AVE MTL 289 GLOUCESTER ST OTTAWA ONT	M S W 2 HU 6 4691	MASHAAL VICTOR 8 COURCELETTE AVE OUTREMONT 8 QUE	B ARCH 4 CR 4 7205
MARTIN DAVID EDWIN 3434 MCTAVISH ST MTL BASCOCK RD ROCKPORT MASS USA	B COM 3 VI 2 4492	MASLIN KATHLEEN LINDA MACDONALD COLLEGE 640 GRACE ST LACHUTE QUE	B SC H EC 2
MARTIN DONALD L BRITTAIN HALL RIVER HEBERT CUMB CO N S	B SC AGR 3	MASON JEAN CALKIN 25 THURLOW RD HAMPSTEAD QUE	B A 2 HU 6 4740
MARTIN EDWIN BRITTAIN HALL 40 EUCLID AVE WATERLOO ONT	3 TCHRS	MASON JOHN CHARLES C O MR LATREUILLE STE ANNE DE BELLEVUE QUE 587 FICKES ST ARVIDA QUE	2 TCHRS 1
MARTIN FRANK JOHN CHARLES 419 PRINCE ARTHUR ST MTL 55 ORCHARD PARK DR WEST HILL ONT	B A 1 VI 9 3364	MASON WESLEY GILMOUR 344 CHESTER AVE MONTREAL 16 QUE	B CL 1 RE 8 6128
MARTIN HENRY ARNE 3508 DUROCHER ST MTL 58 HILLHURST BLVD TORONTO 12 ONT	B ENG EL 3 VI 9 4352	MASS ISRAEL 2257 BEDFORD RD MTL 949 SIR ADOLPHE ROUTHIER QUEBEC 6 QUE	B A 4 RE 9 9250
MARTIN JANET CONSTANCE 799 UPPER BELMONT AVE MONTREAL QUE	B A 2 HU 6 2818	MASSE MARCEL 2925 BLVD GOUIN E MONTREAL QUE	L L M 2 DU 8 7174
MARTIN JOHN EDWARD BRITTAIN HALL C O ROYAL MTL GOLF CLUB 1LE BIZARD QUE	2 TCHRS 1	MASSE PIERRE D 3990 SHERBROOKE ST E APT 19 MONTREAL QUE	B CL 4 CL 4 0420
MARTIN JOHN K 3605 RIDGEWOOD AVE APT 401 MTL 504 MCGILVRA BLVD SEATTLE WASH USA	MD CM 4 RE 8 7633	MASTER ELI 4044 MACKENZIE AVE MONTREAL QUE	B ENG CIV 3 RE 8 2623
MARTIN JOSEPH EDOUARD 2009 SHERBROOKE ST E APT 13 MTL MARIA BONAVENTURE CO QUE	B CL 1 LA 5 1655	MASTERS NORMA 1095 DEGUIRE ST VILLE ST LAURENT QUE	B SC 3 RI 7 8782
MARTIN LUCRETIA E ROYAL VICTORIA COLLEGE WILDWOOD VAUDREUIL QUE	B ED 3	MASTROCOLA JOSEPH 7492 DELAROCHE ST MONTREAL QUE	B ENG EL 4 CR 2 9044
MARTIN NORMAN GRANT 1441 DRUMMOND ST MTL 533 FOREST DR COUNCIL BLUFFS IOWA USA	B ENG 1	MATE ANTHONY 3586 COLONIAL ST MONTREAL QUE	B A 2 VI 2 2008
MARTINOW VICTOR MICHAEL 1409 PLESSIS MONTREAL QUE	B SC 3 LA 2 0121	MATHER DAVID STEAD 364 LANSDOWNE AVE WESTMOUNT QUE	PARTIAL WE 8 1522
MARTNA MARET HELGA 2050 CLAREMONT AVE APT 27 MONTREAL QUE	M L S 1 HU 9 5462	MATHESON GWEN MARIAN 3480 STE FAMILLE ST MTL BOLSONER ONT	M A 1 VI 5 9511
MARTTILA WALTER RAYMOND 8324 DE GASPE AVE MTL 1316 MACFARLANE LAKE RD SUDBURY ONT	M A 3 DU 7 3005	MATHER MICHAEL STEWART 3590 RIDGEWOOD AVE APT 204 MONTREAL QUE	B CL 4 UN 1 6361
		MATHER VIRGINIA MARY STEWART HALL 5583 QUEEN MARY RD HAMPSTEAD QUE	H S D DIP
		MATHESON DAVID M 594 LANSDOWNE AVE WESTMOUNT QUE	B D 2 HU 8 6055
		MATHESON KENNETH M 52 BEVERLEY AVE TOWN OF MT ROYAL QUE	B ENG 1 RE 8 8680

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NAME ADDRESS	COURSE & YEAR TEL. NO.	NAME ADDRESS	COURSE & YEAR TEL. NO.
MATIN SYED MURAD 3506 UNIVERSITY ST MONTREAL QUE	B ENG CIV 4	MAVROYANNIS CONSTANTINE 3442 DUROCHER ST MONTREAL QUE	PH D 2 VI 4 0464
MATOSSIAN NICOLAS 3500 MOUNTAIN ST APT 12 MONTREAL QUE	B A 3 VI 2 8819	MAX STEFAN 1415 BISHOP ST MONTREAL QUE	MA 1 AV 8 8976
MATSON KENNETH MORLAND 642 MURRAY HILL AVE WESTMOUNT QUE	B ENG MCH 5 HU 1 6508	MAW ALLAN WILFRED 830 49TH ST LACHINE QUE BOX 105 BOLTON ONT	B ENG EL 4 ME 7 6793
MATSUBUCHI EDWARD T 454 HUDSON AVE MONTREAL WEST QUE	B ENG CIV 8 HU 8 6119	MAW JOAN E 3480 ONTARIO AVE MTL 162 HYDE PARK AVE HAMILTON ONT	B SC POT 3 VI 2 0044
MATTE GEORGE G B DOUGLAS HALL 71 BECLCLER AVE LA TUQUE QUE	B ENG 2 VI 5 1678	MAXIMCHUK ARLENE JOYCE 1250 ST MATTHEW ST APT 4 MONTREAL QUE	PH D 4 WE 7 3021
MATTHEWS DEBORAH MARY LAIRD HALL 60 GLENROVE AVE W TORONTO ONT	B SC H EC 4	MAXWELL ANTHONY B 430 WOOD AVE WESTMOUNT QUE	B ENG MCH 3 WE 5 2071
MATTHEWS DIANA CAROL 7861 23RD AVE MONTREAL 38 QUE	3 TCHRS	MAXWELL BARBARA A LAIRD HALL 7630 24TH AVE VILLE ST MICHEL QUE	P E DIP 2
MATTHEWS JUDITH SYLVIA 86 COTE ST CATHERINE RD MONTREAL QUE	B A 2 CR 7 3415	MAXWELL ROBERT D 1441 DRUMMOND ST MTL 180 YAMASKA ST FARNHAM QUE	B ENG 2
MATTHEWS SOLOMON B 1596 DUCHARME AVE MONTREAL 8 QUE	B ENG 1 CR 7 7202	MAXWELL WILLIAM KEITH 3491 STANLEY ST APT 2 C O W V HOOKER RIVERSIDE DR PICKERING ONT	MD CM 4 AV 8 7834
MATTINSON JOSEPH HENRY 4252 ROYAL AVE MONTREAL 28 QUE	B SC 1 HU 6 6510	MAY MORTIMER 3854 NORTHCLIFFE AVE APT 1 MONTREAL QUE	PH D 3 HU 8 0105
MATTOX WILLIAM G 3630 HUTCHISON ST APT 15 MONTREAL QUE	PH D 2 VI 4 4745	MAY NORMAN M 5790 HUTCHISON ST MONTREAL QUE	B CL 2 CR 4 4146
MATULA ISTVAN TIBOR 6875 LASALLE BLVD VERDUN QUE	B SC 4	MAYBAND LAURENT YVES 447 CHAMP DE MARS MONTREAL 1 QUE	B CL 4 VI 4 5003
MATULEVICIUS EDWARD S J 950 ALLARD AVE VERDUN QUE	B ENG 1 PO 8 1497	MAYEROVITCH DAVID 4840 WESTMOUNT AVE WESTMOUNT QUE	B SC 3 HU 6 6560
MATZ DETLEF 2050 CHOMEDY ST APT 6 MTL 4716 SKYLINE DR NORTH VANCOUVER B C	PH D 2 WE 3 6481	MAYEROVITCH NINA ANN 4840 WESTMOUNT AVE WESTMOUNT QUE	B SC 1 HU 6 6560
MATZKO ALEXANDER 2157 ST ZOTIQUE ST MONTREAL QUE	MED DIPL RA 8 2063	MAYERS JOHN M BRITTAIN HALL STOMARA CLAPHAM ST MICHAEL BARBADOS W I	B SC AGR 4
MAUER SHELDON MICHAEL 4645 PLAMONDON ST APT 24 MONTREAL QUE	B A 2 RE 3 2044	MAYHEW ANNE LOUITT ROYAL VICTORIA COLLEGE 2797 MUSGRAVE ST VICTORIA B C	B A 3
MAUGER YVAN 25 BELLINGHAM MTL 150 MAIN GRANBY QUE	B COM 4 RE 7 9071	MAYNES JOHN IRWIN 1839 LE CARON ST COTE ST PAUL QUE	2 TCHRS 1 PO 7 2300
MAUGHAN MARILYN MURIEL 619 SYDENHAM AVE WESTMOUNT QUE	B A E HU 1 1341	MAYOFF THEODORE STEPHEN 1165 VAN HORNE AVE MONTREAL 8 QUE	3 TCHRS CR 1 0986
MAULE CHRISTOPHER JOHN 1458 MANSFIELD ST MONTREAL QUE	B A 2 VI 2 3618	MAZAK EDWARD 7576 STUART AVE MTL 2048 YPRES AVE WINDSOR ONT	D D S 3 CR 4 9997
MAULE DENISE LAIRD HALL P O BOX 104 MCMASTERVILLE QUE	2 TCHRS 2	MAZIKINS BORIS 6521 36TH AVE APT 3 MONTREAL 36 QUE	MA 1 VI 9 5651
MAULE JOHN D 383 GENEVA CRES MTL MCMASTERVILLE QUE	D D S E RE 8 1656	MAZLIACH EUGENE 3345 ELLENDALE AVE APT 14 MONTREAL QUE	B COM 3 RE 3 7799
MAURICE WILLIAM L 5100 MAPLEWOOD AVE APT 3 MONTREAL QUE	B A 4 RE 7 6646	MAZUREK EDWARD 8175 BIRNAM ST MONTREAL QUE	B ENG 2 CR 2 4901
MAVRIS DENIS 5033 WELLINGTON ST VERDUN QUE	B SC 1 PO 9 2556		

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MAZUTIS JURIS 2057 MAPLEWOOD AVE APT 7 MONTREAL QUE	B ENG EL 1 RE 3 5511	MCCARTNEY KAREN SHIREY MACDONALD COLLEGE 7 BRIDGE ST ORMSTOWN QUE	B SC H EC 1
MBOQUA JOHN PETER 359 PINE AVE W MONTREAL QUE	M A 1 AV 8 2768	MCCAW RICHARD STEELE BRITTAIN HALL BOX 89 BEDFORD QUE	B SC AGR 1
MBOUQA SIMON JAMES 2052 JEANNE MANCE ST MTL CATHOLIC MISSION CATANCA P O BOX 149 THIKA KENYA COLONY BRITISH EAST AFRICA	B ENG CIV 4 AV 8 1019	MCCAY JOCELYN MARY DIANA 103 OAK RIDGE DR BAIE D'URFEE QUE	B L S 1
MCADAM JOSEPH BARRY 424 SHERBROOKE ST W APT 37 MTL 1979 FIVE MILE LINE RD PENFIELD N Y USA	B ENG COM 5 AV 8 7563	MCCATCHIE JEAN M MACDONALD COLLEGE BOX 391 HUNTINGDON QUE	2 TCHRS 2
MCADAM WILFRID BRIAN 82 PERCIVAL AVE MONTREAL WEST QUE	B ENG MCH 4 HU 4 4019	MCCLEAN JANETTE SCOTT B 4251 OXFORD AVE MONTREAL QUE	MD CM 4 HU 6 0591
MCALLISTER JOHN THOMAS MACDONALD COLLEGE GAGETOWN N B	B SC AGR 3	MCCLELLAN JR JOHN DOUGLAS HALL WOODSTOCK CONNECTICUT USA	B SC 1
MCALPIN THOMAS W 3723 WELLINGTON ST VERDUN QUE	B A 1	MCCLELLAND JOAN G STEWART HALL CANTLEY QUE	2 TCHRS 2
MCARDLE ALICE HOPE 4830 HARVARD AVE MONTREAL 28 QUE	PH D 2	MCCLOSKEY BRIAN PATRICK 3508 DUROCHER ST MTL 14 FAIRBAIRN ST OTTAWA ONT	B ARCH 4 VI 9 4352
MCAREE CHRISTOPHER P 4650 DUPUIS AVE APT 12 MONTREAL QUE	MED DIPL 2 RE 3 3284	MCCOLM ELAINE EDITH ALMA LAIRD HALL 705 49TH AVE LACHINE QUE	3 TCHRS
MCARTER LORNA JANICE 2 AURORA RD STE 14 PTE CLAIRE QUE	3 TCHRS	MCCOMBS ROBERT M 379 43RD AVE LACHINE QUE	B ENG MCH 3 ME 7 0886
MCARTHUR CAMERON HUGH 2087 ST LUC ST APT 11 136 3RD ST NORANDA QUE	B A 4	MCCONNELL BARBARA JOANN 128 BALFOUR AVE MONTREAL 16 QUE	B A 2 RE 8 2463
MCARTHUR JULIET E M STEWART HALL 466 KENWOOD AVE OTTAWA ONT	B SC H EC 2	MCCORMICK ANDREW QUINN 2100 MARLOWE AVE MTL 822 SAUCIER AVE KELOWNA B C	MD CM 4
MCARTHUR PAULINE GERTRUDE MACDONALD COLLEGE 172 RAULAN ST S RENFREW ONT	B SC H EC 4	MCCORMICK CATHERINE C 12220 LACHAPELLE ST MONTREAL 9 QUE	H S D DIP RI 7 1496
MCCBRIDE JAMES H T 4654 VICTORIA AVE MONTREAL QUE	B ENG 2 HU 6 4631	MCCORMICK MYRA J C 3439 DUROCHER ST APT 11 152 MT PLEASANT RD BRANTFORD ONT	MD CM 2 VI 4 3565
MCCBRIDE PEGGY KATHLEEN 4610 BEACONSFIELD MONTREAL QUE	B A 1 HU 6 1704	MCCORMICK RAYMOND H 18 WOLSELEY AVE S MTL W 409 FIRST ST W CORNWALL ONT	B D S 1 HU 6 1903
MCCALLUM JOHN ADAIR 9 B DORVAL AVE APT 103 DORVAL QUE P O BOX 214 KNOWLTON QUE	PARTIAL ME 1 6063	MCCRACKEN JAMES EDWARD F 4128 HARVARD AVE MONTREAL QUE	B A 2 HU 4 2980
MCCALLUM WILLIAM C 1118 ELGIN TERR MONTREAL 2 QUE	B C L 3 VI 5 7573	MCCREA JAMES B G 290 PRINCE ARTHUR ST W 51 BABY PT CREE TORONTO ONT	B ENG 1 VI 5 7817
MCCAMMON ANTONY LEWIS T APT 301 CARLETON HOUSE 1000 2 MCGREGOR ST MONTREAL QUE	B COM 1	MCCRIMMON DONALD ROSS 511 CLARKE AVE WESTMOUNT QUE	B COM 1 WE 3 9669
MCCARDELL NORA ELLEN 6275 SHERBROOKE ST W APT 205 MONTREAL QUE	M SC 1 HU 6 2384	MCCUAIG MARION RUTH 4580 BEACONSFIELD AVE MONTREAL 28 QUE	B A 3 HU 1 6084
MCCARTHY JOSEPH WILLIAM 3473 UNIVERSITY ST MTL 10784 PIGEON ST MONTREAL NORTH QUE	PARTIAL VI 9 1791	MCCULLAGH PAULINE 3562 UNIVERSITY ST MONTREAL QUE	B A 4 VI 5 9876
MCCARTHY RENNIE LEIGH ROYAL VICTORIA COLLEGE 235 WARREN RD TORONTO ONT	B A 1 VI 2 0829	MCCULLOCH JUDITH A MCLENNAN HALL 85 ALEXANDER ST NEW GLASGOW N B	B SC P OT 3 VI 2 0044
		MCCULLOUGH EDWARD EASTMAN 21 ST CHARLES AVE DORVAL QUE	PH D 3 ME 1 8130

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MCCULLY KEITH ALLEN BOX 49 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	PH D 3	MCGOWAN MARY MARQUERITA 3454 STANLEY ST APT 11 MONTREAL QUE	B N 2 VI 5 4440
MCCUTCHAN GARRETT SLAGG 548 PRINCE ARTHUR ST MTL 45 CLIFTON BLVD BINGHAMTON N Y USA	B A 1 VI 2 0877	MCGRAW JEAN YVES 7140 PARK AVE MONTREAL QUE	M SC 1 CR 7 3631
MCCUTCHEON DAVID CAMERON 1670 CHURCH ST VILLE ST LAURENT QUE	B ENG MCH 4 RI 7 6022	MCGURER FREDERICK K 885 LINDSAY ST VILLE ST LAURENT QUE	B COM 4 RI 7 4420
MCCUTCHEON EDNA ELIZABETH LAIRD HALL SPRINGFIELD R R 1 KINGS CO N S	B SC M EC 4	MCGURK WILLIAM M K 3485 MCTAVISH ST MONTREAL QUE	B CL 3
MCCUTCHEON ROBERTA M 5412 MOUNTAIN SIGHTS MTL WEST BROME QUE	GRAD DIP HU 9 3744	MCHAFFIE LAURA JEAN MACDONALD COLLEGE 10351 CHRISTOPHE COLOMBE MONTREAL QUE	M S D DIP
MCDONALD GLENNA C 16 CEDAR AVE PTE CLAIRE QUE	B ED 3 OX 5 5986	MCHARE ROBERT GORDON MACDONALD COLLEGE AYER S CLIFF QUE	M S D DIP
MCDONALD JOHN ANTHONY 7571 SECOND AVE MTL 40 BEECHWOOD AVE WILLOWDALE P O ONT	B SC 2 RA 1 9095	MCILQUHAM MORVEN CAMERON 103 SUNNYSIDE AVE WESTMOUNT QUE	MD CM 2 HU 4 6244
MCDONALD MARION JEAN 2353 CLIFTON AVE MONTREAL 28 QUE	GRAD DIP HU 1 0962	MCINDOE ROBERT W 1541 GRANT AVE VILLE JACQUES CARTIER QUEBEC	B ENG 1 OW 4 4083
MCDONALD PAUL C 4389 MAYFAIR AVE MONTREAL QUE	B SC 4 HU 4 0691	MCINTOSH DOROTHY E 19 SPRINGFIELD AVE WESTMOUNT QUE	M S W 2 WE 7 1826
MCDONNELL FRANCIS TERENCE 360 WOOD AVE WENT APT 79 N E M HOUSE 8TH AVE BULAWAYO E RHODESIA	B ENG EL 4 WE 2 3014	MCINTYRE ELIZABETH A STEWART HALL 1108 MOPPAT AVE VERDUN QUE	2 YCHRS 2
MCDUGALL ALLAN KERR 617 ROSLYN AVE WESTMOUNT QUE	B A 2 HU 4 7466	MCINTYRE JOAN MARIE C 130 HIGHFIELD AVE TOWN OF MT ROYAL QUE	B A 2 RE 8 4944
MCDUGALL ORAEME A MACDONALD COLLEGE SHAWVILLE QUE	B SC AGR 1	MCIVER ALAN ROBERT 228 CHAPLEAU ST BOX 308 ROSEMERE QUE	B SC 3 NA 5 4034
MCEACHERN GAIL DUVAL 3578 UNIVERSITY ST MONTREAL QUE	B A 4 VI 9 9946	MCIVER JOHN DAVID HUT C 6 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	B SC AGR 4
MCEACHERN JOHN DONALD 3578 UNIVERSITY ST MONTREAL QUE	B SC 2 VI 9 9946	MCIVER SISTER MARY W 251 PINE AVE W MTL MOUNT ST MARYS CHARLOTTETOWN P E I	L MUS 3
MCELROY GORDON WILLIAM E MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	PARTIAL	MCIVER RODERICK JOHN 228 CHAPLEAU ST BOX 308 ROSEMERE QUE	B SC 2 NA 5 4034
MCFALL IAN KELLER BRITTAIN HALL 4544 OLD ORCHARD MONTREAL QUE	B SC AGR 3	MCKAY ALEXANDER RONALD 9 MORRISON AVE TOWN OF MT ROYAL QUE	M ENG 3 RE 3 6987
MCFEE RICHARD DONALD MYRO 3508 DUROCHER ST MTL 66 WILFRID ST VALLEYFIELD QUE	B ENG 2 VI 9 4352	MCKAY ELIZABETH A D ROYAL VICTORIA COLLEGE ORCHARD COTTAGE ENGLEFIELD GREEN NR EGHAM SURREY ENGLAND	B A 2 VI 2 0495
MCGARRY MICHAEL GRIMSBY 3653 UNIVERSITY ST MTL 232 VICTORIA LONDON ONT	B ENG 2 AV 8 1517	MCKAY JOHN R 4694 GROSVENOR AVE MONTREAL 29 QUE	MUS B 3 HU 1 2952
MCGINITY BERNARD BOND 3565 DUROCHER ST MTL 636 20TH AVE SAN FRANCISCO CALIF USA	MD CM 3 AV 8 6905	MCKAY JULIE POSTER ROYAL VICTORIA COLLEGE 3 EAST ORCHARD ST MARBLEHEAD MASS USA	B A 1 VI 2 0597
MCGOWAN JAMES A 1115 LAJOIE AVE APT 10 OUTREMONT QUE	B ED P ED 3 CR 9 4317	MCKEE BARRY THOMAS DOUGLAS HALL 1530 FIFTH AVE WEST OWEN SOUND ONT	B SC 2 VI 2 7548
MCGOWAN JAMES GRAHAM 3506 UNIVERSITY ST MTL CABILLA DE CORREO 5510 CORREO CENTRAL BUENOS AIRES ARGENTINA	B COM 2 VI 4 0624	MCKEE BEVERLEY WILLIAM 6540 WILDBERTON AVE APT C 1530 FIFTH AVE WEST OWEN SOUND ONT	MD CM 3

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MCKEEL NEIL WALLACE 3530 DUROCHER ST APT 23 CAMPBELL FORD ONT	B ENG 2	MCLEOD MALCOLM E W 217 LAZARD AVE TOWN OF MT ROYAL QUE	B A 3 RE 7 5743
MCKELL MARGARET A MACDONALD COLLEGE AUSREY QUE	B TCHRS 2	MCLEOD ROBERT A L 503 ARGYLE AVE WESTMOUNT QUE	MD CM 2 WE 3 1333
MCKELLAR JEAN ANNE BOX 156 DORION QUE	B A 3	MCLENNON JOHN ROSS 35 ABERDEEN AVE WESTMOUNT QUE	B A 2 WE 5 7875
MCKELVEY LORNA P LAIRD HALL 10023 PARK GEORGE BLVD MONTREAL NORTH QUE	B ED 2	MCMASTER MARTHA B 49 OAKLAND AVE WESTMOUNT QUE	PARTIAL HU 1 4756
MCKENZIE MARILYN JEAN 1009 SHERBROOKE ST W MTL BOX 218 ST ANDREWS N B	B SC P OT 2	MCMENAMIN JAMES EDWARD 3484 PEEL ST MTL 327 WELLINGTON HQTS SUDBURY ONT	B ENG MI 4 VI 4 5922
MCKEOWN LYDON K 3473 UNIVERSITY ST MTL 2066 CLAREMONT AVE APT 76 MONTREAL QUE	B D 3 VI 9 1791	MCMICHAEL GERALDINE ANN ROYAL VICTORIA COLLEGE R R 1 QUEENVILLE QUE	B SC 3 VI 2 0334
MCKERGOW JAMES IAN 230 LOGAN ST ST LAMBERT QUE	B SC 4 OR 1 6404	MCMICHAEL JANET Q 212 BALLANTYNE AVE N MONTREAL WEST QUE	B A 2 HU 1 3558
MCKINNEY BLANCHE ELOISE 3466 SHUTER ST APT 106 PHIPPEN SASK	GRAD DIP VI 9 8561	MCMILLAN JAMES MALCOLM 5100 MAPLEWOOD AVE APT 8 MTL 6386 BURNS ST BURNABY 1 B C	PH D 2 RE 9 9495
MCKINNEY PETER W 3851 UNIVERSITY ST MTL R F D WEST DANVILLE VERMONT USA	MD CM 4	MCMILLAN MARY ELIZABETH 248 MORRISON AVE TOWN OF MT ROYAL QUE	A & B COM 1 RE 3 4254
MCKINNON DOUGLAS ARCHIE 1065 TRUDEAU ST VILLE ST LAURENT QUE	MD CM 3 RI 4 0835	MCMOREINE KENNETH A KINGSBURY QUE	B SC AGR 1
MCLACHLIN IAN 4864 COTE DES NEIGES RD MONTREAL QUE	B ENG MCH 5 RE 8 6828	MCMORRAN ELIZABETH E LAIRD HALL 795 PERE ERNEST CARRIER QUEBEC CITY QUE	B SC M EC 4
MELANSON JOSEPH LEONARD 1595 CARDINAL MONTREAL QUE	B C L 3 RI 7 9010	MCMORRAN MICHAEL ANGUS 3431 DRUMMOND ST MTL 90 RUSKIN AVE OTTAWA ONT	B SC 1
MCLAREN WILLIAM ALLEN 125 HICKSON AVE ST LAMBERT QUE	B ENG CIV 5 OR 1 1481	MC MULLEN DONALD WALTER 3647 UNIVERSITY ST MTL 94 B HIGH ST PORT ARTHUR ONT	B ENG MCH 4 VI 9 2806
MCLAUGHLIN CHARLES J 6800 21ST AVE APT 1 MONTREAL 36 QUE	B D 2 RA 9 6040	MCNALLY LAWRENCE BERNARD 3581 UNIVERSITY ST MTL 9 7TH ST NORANDA QUE	MD CM 1 VI 9 1368
MCLEAN DANIEL PINOLE 94 CHARLESWOOD DR BEACONSFIELD QUE	B SC 3 OX 5 2796	MCNAMEE PETER GRAHAM 5374 DRAKE ST MONTREAL QUE	B ENG CIV 5 PO 7 3952
MCLEAN DAVID FREDERICK J 3478 MCTAVISH ST MTL C B C R LIMON COSTA RICA	B ENG CIV 4 VI 2 7412	MCNEELY PHILIP ANTHONY 1947 ST LUC ST APT 3 MTL CUMBERLAND ONT	B ENG CIV 4
MCLEAN DONALD EDWARD 660 MURRAY HILL WESTMOUNT QUE	B A 3 HU 6 6561	MCNEILL ALFRED KENNETH 3320 NOTRE DAME ST LACHINE QUE MARYLAND QUE	MD CM 4 ME 7 1161
MCLEAN JAMES T 5245 COTE ST LUC RD MONTREAL QUE	B SC 1 HU 6 8793	MCNEILL DUNCAN IVE 4081 HIGHLAND AVE MONTREAL QUE	B A 2 WE 5 8634
MCLEARN ROBERT MICHAEL 133 PERCIVAL AVE MONTREAL QUE	B C L 3 HU 6 9178	MCNEILLY RUSSELL A 3445 PEEL ST MONTREAL QUE	B ENG 1 VI 5 9462
MCLELLAN ALLISTER M 4876 COTE DES NEIGES APT 6 MTL 235 PELHAMDALE AVE PELHAM N Y USA	MD CM 4 RE 3 6745	MCQUEEN EVELYN JOAN 3440 PEEL ST APT 11 MTL 292 HERKIMER ST HAMILTON ONT	PARTIAL AV 8 5938
MCLENAHAN MARY KATHLEEN MACDONALD COLLEGE 140 MAIN ST WINDSOR MILLS QUE	B TCHRS 1	MCQUEEN MARY MARGARET 5217 SHERBROOKE ST W MONTREAL QUE	GRAD DIP HU 9 5120
MCLEOD JOHN 1850 LINCOLN AVE APT 405 MONTREAL QUE	B ENG MCH 4	MCROBIE BLAIR ROBERTSON 3228 THE BOULEVARD WESTMOUNT QUE	B A 3 WE 2 0660

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NAME ADDRESS	COURSE & YEAR TEL. NO.	NAME ADDRESS	COURSE & YEAR TEL. NO.
MCTAGGART GAULT B 499 VICTORIA AVE WESTMOUNT QUE	B ENG 1 WE 7 4787	MELLEN PETER WILSON 768 SHERBROOKE ST W APT 17 MTL 57 STRATFORD RD MONTREAL 29 QUE	B A 3 VI 9 1776
MCTEER PAMELA JOAN LAIRD HALL 90 HEATH ST W APT 204 TORONTO 7 ONT	B SC H EC 1	MELNYK ROMAN PETER 5155 2ND AVE MONTREAL 36 QUE	B A 2 LA 5 7477
MCTIERNAN ROBERT APT C 17 MACDONALD COLLEGE 79 GRAND VIEW AVE WORCESTER MASS USA	D D B 4	MELOCHE NICOLE MACDONALD COLLEGE 3 ST JOHN BAPTIST VALLEYFIELD QUE	B SC H EC 1
MCTURK ELIZABETH TAYLOR 1631 ST LUKE ST APT 8 MONTREAL 25 QUE	M B W 1 WE 3 7938	MELVILLE STEPHEN DOORLY 3448 PEEL ST MTL 3 BRAEMAR AVE KINGSTON 10 JAMAICA W I	B ENG EL 4 VI 5 9462
MCVEY DONALD JOHN MACIVER 5370 RANDALL AVE APT 15 MONTREAL QUE	B ENG EL 3 HU 8 8233	MELZACK BRIAN FRED 5055 GLENCAIRN AVE MONTREAL 29 QUE	B A 1 HU 6 1883
MCVEY VAUGHAN EDWARD 5332 CUMBERLAND AVE MONTREAL QUE	PARTIAL HU 9 4727	MELZACK JULIAN STEVEN 5055 GLENCAIRN AVE MONTREAL 29 QUE	B A 3 HU 6 1883
MEADE RONALD MICHAEL GUY 3434 MCTAVISH ST MTL MERRY BROOK FAR HILLS N J USA	B A 3 VI 2 4492	MENARD KENNETH 1839 LINCOLN AVE APT 9 17 UNION ST HAWKESBURY ONT	B ENG CIV 5
MEADLEY RONALD GEORGE 48 CRESTWOOD AVE MTL 1104 RAYMOND CASGRAIN QUEBEC CITY QUE	B SC 3 HU 4 8090	MENASHE EDWARD 1517 MCGREGOR ST MTL 4 BAEHLER ST CAIRO EGYPT	B COM 2 WE 7 5831
MEADOWS FRANK HAROLD 5180 ST JOSEPH BLVD LACHINE QUE	B D 1 ME 7 8858	MENDELL LORNE MICHAEL 635 BELMONT AVE WESTMOUNT QUE	B SC 3 HU 1 7122
MEAKINS JONATHAN L 620 MURRAY HILL WESTMOUNT QUE	B SC 2 HU 1 8837	MENDELS ROGER PIERRE 5447 LAVOIE ST MONTREAL 26 QUE	M A 1 RE 3 4196
MECARBANE JOSEF GEORGE 3638 DUROCHER ST APT 2 3 D ABDEL HAMID STR CAIRO EGYPT	B COM 2 AV 8 3780	MENDELSOHN BRENDA E 4602 ROYAL AVE MONTREAL QUE	3 TCHRS
MEDICOFF GRACE ELLEN 8187 STUART AVE MONTREAL QUE	B SC 1 CR 9 5742	MENDELSOHN LORNA TOBAN L P O BOX 760 CHISBOUGAMAU QUE	3 TCHRS
MEDINA CARLOS ALBERTO 1363 MCGREGOR ST MTL STA ROSA DE COPAN REPUBLICA DE HONDURAS CENTRO AMERICA	B SC 4 WE 3 0837	MENDELSOHN MAXWELL W 10 RENFREW AVE WESTMOUNT QUE	B A 2 HU 4 8130
MEDZON EDWARD LIONEL 3660 PEEL ST APT 6 MTL 548 QUEENSTON ST WINNIPEG 9 MAN	PH D 2 VI 5 7730	MENDELSOHN MELVIN 990 PRATT AVE OUTREMONT QUE	MD CM 3 RE 8 1906
MEEHAN EDWIN LEEMAN 659 WOODLAND AVE VERDUN QUE	B A 4 PO 7 2296	MENDELSON DAVID 617 VICTORIA AVE WESTMOUNT QUE	M SC 1 HU 4 9074
MEGHIR SAMUEL 3668 DUROCHER ST MONTREAL QUE	PH D 4 VI 9 0750	MENDELSON JACK 4130 KENT AVE MONTREAL QUE	MD CM 4
MEHNERT VOLKER 6 PARK PL APT 6 WESTMOUNT QUE	B C L 1 WE 7 5896	MENDELSON JOSEPH 617 VICTORIA AVE WESTMOUNT QUE	B SC 3 HU 4 9074
MEIER LOUIS ALOIS 3524 HUTCHISON ST APT 28 MONTREAL QUE	MD CM 1	MENDELSON REBEKAH ZIONA 617 VICTORIA AVE WESTMOUNT QUE	B A 3 HU 4 9074
MEIGHEN MICHAEL ARTHUR 16 BRASSIDE PL MONTREAL QUE	B A 4 WE 5 3444	MERGER JEAN ELIZABETH ROYAL VICTORIA COLLEGE 1278 WEST 37TH VANCOUVER 13 B C	B A 1 VI 2 0529
MEIKLE JOHN EDEN S BRITTAIN HALL 36 CAMP RD KINGSTON 4 JAMAICA W	B SC AGR 2	MERGER PATRICIA LYNNE 3650 MOUNTAIN ST MTL 6184 CARNARVON ST VANCOUVER B C	B A 3 VI 5 8062
MEISLOVA TANA 1575 SUMMERHILL APT 310 MONTREAL QUE	PARTIAL WE 7 4396	MERCHANT DAVID FRANCIS 8305 BAILLARGE ST APT 6 MONTREAL 5 QUE	B SC 3 CL 9 1450
MELANCON FLORIAN 65 SHERBROOKE ST W MTL 397 109TH ST SHAWINIGAN B QUE	B ENG COM 5	MERCIER CLAUDE 1900 ST EDWARD PLESSISVILLE QUE	B ENG MET 4

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MERKEL CARL DAVID DOUGLAS HALL 160 PARK AVE ZARANAC LAKE N Y USA	MD CM VI 4 0977	MICHAUD JACQUES C O ADELARD MICHAUD CACOUNA QUE	B SC AGR 1
MERKLEY GORDON HERBERT 3614 DECARIE BLVD APT 16 MONTREAL 28 QUE	B D HU 4 8917	MICHELIN PAUL EDWARD 4565 KENSINGTON AVE MONTREAL QUE	B COM 3 HU 6 3281
MERRIAM RICHARD KERR 695 LAURENTIEN BLVD VILLE ST LAURENT QUE	MED DIPL 4 RI 8 7663	MICHIE GEORGE HAROLD 539 PINE AVE W MONTREAL QUE	PH D 2 AV 8 0919
MERRITT GORDON EDWIN 70 CHESTERFIELD AVE MONTREAL QUE	B ENG MCH 5 HU 1 2353	MICKLEA GEORGE DAVID 4800 COTE DES NEIGES APT 30 MTL 1238 CHILVER RD WINDSOR ONT	PH D 2 RE 1 2513
MERTENS HANS WINFRIED 435 SHERBROOKE ST W MONTREAL QUE	B C L 1 WE 2 2925	MIDDLETON BRUCE ALFRED 52 REGINA AVE GREENFIELD PARK QUE	2 TCHRS 1
MERWIN CHARLOTTE ANN 4095 COTE DES NEIGES APT 33 MTL 25 O CONNOR ST SUDBURY ONT	GRAD DIP 1	MIDDLETON NOREEN CLARE STEWART HALL 45 SWALLOW AVE STRATHMORE QUE	B ED 2
MESSINGER ORVILLE JAMES DOUGLAS HALL 3 WILLIAMS ST LEWISVILLE N B	B SC 2	MIDDLETON ROBERT DOBSON 4100 COTE DES NEIGES RD MONTREAL QUE	MD CM 4 WE 7 0258
MESSER STANLEY BERNARD 4844 FULTON ST MONTREAL QUE	B SC 2 RE 8 4843	MIECHOWSKY GEORGE JERZY 4400 LINTON AVE APT 5 MONTREAL QUE	B ENG CIV 3 RE 1 4658
MESSIER BERNARD HENRY 8573 REIMS MONTREAL QUE	PH D 4 DU 8 3217	MILES JAMES ARTHUR BRITAIN HALL 192 MAIN ST MANIWAKI QUE	2 TCHRS 2
MESSIER MICHEL B 3478 MCTAVISH APT 41 90 LEFRANCOIS BLVD WOONSOCKET I USA	B ENG 2 VI 2 7412	MILLAR CARLETON 95 EASTON AVE MONTREAL WEST QUE	B ENG CIV 4 HU 4 1309
MESSING ANNE 6250 DEACON RD MONTREAL QUE	B A 1 RE 8 5365	MILLAR JOHN KEITH ROYAL VICTORIA HOSPITAL 687 PINE AVE WEST MONTREAL QUE	MED DIPL 1
MESTER SOL 4046 MAPLEWOOD AVE MONTREAL 26 QUE	B ENG EL 3	MILLEN ALFRED JOHN 5005 COTE ST CATHERINE APT 1A MONTREAL QUE	B SC 1
METARLIN DANIEL N 506 OUTREMONT AVE MONTREAL QUE	B C L 2 CR 7 6038	MILLER ARNOLD 2980 SOISSONS AVE MONTREAL QUE	B C L 1 RE 8 0291
METZGER CATHARINE ANNE 4475 GRAND BLVD APT 3 MONTREAL 28 QUE	H S D DIP HU 6 7508	MILLER BARRINGTON E A DOUGLAS HALL 23 CORE TERR KINGSTON 10 JAMAICA W I	D DS 1 AV 8 3506
MEUNIER JOSEPH JACQUES L 8 4TH AVE APT 5 ISERVILLE QUE	B ENG CH 3	MILLER BEVERLEY SUE MACDONALD COLLEGE 820 42ND AVE LACHINE QUE	2 TCHRS 2
MEYER HILDA ALBERTA MACDONALD COLLEGE BROOKDALE QUE	3 TCHRS	MILLER CAMERON DYMENT 195 DEVON AVE TOWN OF MT ROYAL QUE	B A 3 RE 1 6253
MEYER WILLIAM TIMOTHY W 2005 CHOMEDY ST APT 16 P O BOX 33 LUBAKA NORTHERN RUDEBIA	B SC 1	MILLER DANIEL S 6300 LENNOX AVE APT 907 MONTREAL QUE	B C L 2 RE 1 0279
MEZES ISTUAN 3547 UNIVERSITY ST APT 20 MONTREAL QUE	B ARCH 6 AV 8 8586	MILLER DAWN ANN 1251 ST MARC ST APT 17 BOX 404 KNOWLTON QUE	MUS B 1 WE 5 2361
MEZGAILIS KAREN 5205 O BRYAN AVE MONTREAL QUE	B A 2 HU 8 8148	MILLER DAVID IRA DOUGLAS HALL P O BOX 725 NORTH SYDNEY N S	B A 2
MICAS CHRYSIE 680 ABERDARE RD TOWN OF MT ROYAL QUE	B SC 2 RE 7 6758	MILLER FRANKLIN JUDD 4575 LACOMBE AVE MONTREAL QUE	B ENG EL 4 RE 8 2920
MICHAEL FRED SEYMOUR 1577 VAN MORNE AVE APT 9 MONTREAL QUE	M A 1 CR 6 2484	MILLER GEORGE WILLIAM 3581 UNIVERSITY ST MTL R R 6 HAGERSVILLE ONT	B SC 3 VI 9 1638
MICHALSKI JOSEPH EUGENE 8617 MONTGOMERY MONTREAL QUE	B ENG EL 4 LA 4 3146	MILLER GRANVILLE E 3545 UNIVERSITY ST APT 4 MONTREAL QUE	M A 2 VI 9 4610
MICHALUK ROBERT ANTHONY 762 12TH AVE LACHINE QUE	B ENG 1 ME 7 6189		

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MILLER HARRIS G BRITTAIN HALL C O MRS V MILLER R R 1 CASPE CASPE QUE	2 TCHRS 2	MILLER WILLIAM ALFRED 5539 ROSDALE AVE MONTREAL 29 QUE	B ENG MET 4 HU 4 5531
MILLER HEDDA 5900 DOLBEAU ST MONTREAL QUE	B A 1 RE 3 1827	MILLEY PAUL S 1456 CHOMEDEY ST MTL 3727 CHILI AVE ROCHESTER 24 N Y USA	MD CM 2 WE 5 7084
MILLER HELAINE HELENA 40 MONTEE STE MARIE STE ANNE DE BELLEVUE QUE 2980 SOISSONS AVE MONTREAL QUE	3 TCHRS	MILLIGAN ROBERT FREDERICK 352 OAK AVE ST LAMBERT QUE	B SC 3
MILLER IAN SCOTT 78 THURLOW RD HAMPSTEAD QUE	B COM 4 HU 1 6817	MILLINGTON VIVIAN B 3539 LORNE AVE MTL 37 MIDLAND AVE MONTCLAIR N J USA	B SC 4 VI 2 0476
MILLER IRWIN 3050 BRIGHTON AVE MONTREAL QUE	B SC 2 RE 7 8694	MILLMAN RALPH 4546 DRAPER AVE MONTREAL 28 QUE	2 TCHRS HU 6 4828
MILLER JACK MARTIN 1441 DRUMMOND ST MTL 19 5TH ST E CORNWALL ONT	B SC 3	MILLOWITZ STUART 5830 HUDSON RD MONTREAL QUE	B C L 3 RE 8 4225
MILLER JACK RALSTON DOUGLAS HALL 768 ST PAUL ST THREE RIVERS QUE	B A 3 VI 2 9744	MILLS ALAN RODNEY 337 ELM AVE WSMT 15 CENTRE ST KINGSTON ONT	PH D 2 WE 7 1578
MILLER JOAN E 162 LAKEVIEW AVE PTE CLAIRE QUE	2 TCHRS OX 5 6289	MILLS AUBREY A 6430 LEON DEROME ST MONTREAL 5 QUE	B ENG MCH 4 CL 6 1036
MILLER LOIS MOSES 6300 LENNOX AVE BOX 907 MONTREAL QUE	B A 4 RE 1 0279	MILLS BRENDA LOIS MACDONALD COLLEGE 11258 LAMOREUX AVE MONTREAL 12 QUE	3 TCHRS
MILLER LORNE SAMUEL 5614 ELDRIDGE AVE COTE ST LUC QUE	B COM 1 HU 8 3585	MILLS CATHERINE AUDREY 4509 HARVARD AVE MONTREAL QUE	B A 4 HU 9 8387
MILLER MALCOLM NEIL 3436 DUROCHER ST APT 12 R R 1 ORAFTON KING S CO N S	B SC 2 VI 9 9790	MILLS CHRISTIE H J 4519 OLD ORCHARD AVE MONTREAL 28 QUE	B SC 1 HU 8 0921
MILLER MARILYN K ROYAL VICTORIA COLLEGE C O Q N S 0 L RAILWAY SEPT ILES QUE	B ED P ED 3 VI 9 0858	MILLS DOUGLAS KEITH MONTREAL GENERAL HOSP 720 COOPER ST OTTAWA ONT	MED DIPL 2
MILLER MONROE 3050 BRIGHTON AVE MONTREAL QUE	B SC 1 RE 7 7000	MILLS FRED CAMERON 3524 DUROCHER ST MONTREAL 18 QUE	M SC 1 VI 5 6327
MILLER NORMAN 3483 PEEL ST MTL 21 GREEN ST SALEM MASS USA	B SC 1 VI 2 0882	MILLS MARY ANDREA 4981 MACDONALD AVE MONTREAL QUE	B A 4 HU 6 5843
MILLER NORMAN LOUIS 1978 NORWAY RD MONTREAL QUE	B ENG 2 RE 7 0522	MILLS MAUREEN E 220 LAZARD AVE TOWN OF MT ROYAL QUE	B A 1 RE 7 5553
MILLER NUGENT ARTHUR L 3485 MCTAVISH ST MTL CONFERENCE ST ANDREW GRENADA W I	B A 2 VI 9 0141	MILNE GEORGE A C 3525 TRENHOLME AVE MONTREAL QUE	B SC 3 HU 1 3295
MILLER ROBERT 536 CLARKE AVE WESTMOUNT QUE	B ENG MCH 4 WE 2 7208	MILNER JOHN PETER 2019 STANLEY ST APT 4 MONTREAL QUE	B C L 1 VI 5 8561
MILLER RONALD NORMAN 5512 MC LYNN AVE MONTREAL 29 QUE	B ENG 1 RE 7 8307	MILNER ROBERT GORDON M WILSON HALL P O BOX 29 KINGSTON 8 JAMAICA W I	B SC 2
MILLER SAUL BERNARD 4756 MERIDIAN AVE MONTREAL QUE	B SC 1 HU 1 2115	MILSON HORACE M 1441 DRUMMOND ST MTL 293 SHEPHERD ST BARNIA ONT	B ENG 2
MILLER SEYMOUR S 4507 MELROSE AVE MONTREAL QUE	B ENG 2 HU 6 8345	MINDESS DOLLY RUTH 3235 RIDGEWOOD AVE APT 302 MONTREAL QUE	M S W 2 RE 3 6787
MILLER STEPHEN 473 DUFFERIN RD HAMPSTEAD QUE	B SC 2 HU 4 8172	MINNE GODFREY NIGEL 3550 SHUTER ST APT 11 P O BOX 1358 NASSAU SAHAMAS	B ENG PHY 3 VI 2 0452
MILLER WALTER WILLIAM G 1600 ATHLONE RD TOWN OF MT ROYAL QUE	B ENG MCH 5 RE 8 0518	MINOR DAPHNE DAISY MACDONALD COLLEGE 310 MERRY ST MAGOG QUE	3 TCHRS

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MINTZBERG HENRY 46 COURCELETTE AVE MONTREAL 8 QUE	B ENG MCH 4 CR 2 0496	MITTER ASHOK CHANDRA 22 GARPAR RD CALCUTTA 9 WEST BENGAL INDIA	PARTIAL
MINUE KENNETH VINCENT P 6156 SHERBROOKE ST W APT 2 MONTREAL QUE	B A 1 MU 2 1597	MIYAZAKI REIKA 3608 DE SULLION MONTREAL QUE	MUS B 3 VI 4 8505
MIOM TIZIANO A 8617 BIRNAM MTL 1913 E MADISON HARLINGEN TEXAS USA	B ENG 1 CR 4 6059	MIZENER BARBARA ANN MACDONALD COLLEGE 256 SETOURNAY AVE ST LAMBERT QUE	B SC M EC 1
MIRABILE CHARLES SAMUEL DOUGLAS HALL FARMINGTON CONN USA	MD CM 1	MIZGALA HALINA JULIA 4525 BELMORE AVE MONTREAL QUE	MUS W 2 MU 4 1705
MIRCHANDANI AJIT 8039 MCGILL COLLEGE AVE APT 9 MONTREAL QUE	B ENG MCH 4 VI 2 7650	MLYNARYK PETER 4560 DECAKIE BLVD APT 118 MONTREAL QUE	MED DIPL 3
MIRZA CAMERAN MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	B SC AGR 4	MODE DRUMMOND STUART 14 GLENMORE RD HAMPSTEAD QUE	B COM 2 MU 6 5117
MIRZA IZHARUDDIN AHMED 2950 MAPLEWOOD AVE APT 1 MTL C O MAJOR M S AHMED 52 GWYN THOMAS RD RAUSALPINDI WEST PAKISTAN	PH D 1 RE 3 4116	MODE MARILYN J 14 GLENMORE RD HAMPSTEAD QUE	B SC P OT 2 MU 6 5117
MISNER DONALD K 3485 MCTAVISH ST MTL 53 HAYNES AVE ST CATHARINES ONT	B ENG 2	MOFFET THOMAS H R 75 STRATHCONA DR TOWN OF MT ROYAL QUE	B ENG 2 RE 8 5881
MISHKIN SEYMOUR 6200 CLARRANALD AVE MONTREAL QUE	B SC 3 RE 3 4504	MOHAMMED ASHMEAD ALI 3546 LORNE AVE APT 5 MONTREAL QUE	B SC 2
MISIASEK STELLA EMILY 2149 ST JUST ST MONTREAL 5 QUE	B SC 1 CL 5 5029	MOHAN GORDON SCOTT 3567 SHUTER ST APT 5 MTL 70 RUSHWORTH ST SAN FERNANDO TRINIDAD W I	B SC 3 VI 4 5401
MITCHELL DONALD R MACDONALD COLLEGE 126 BRODIE ST SUDBURY ONT	P E DIP 1	MOHR WILHELM 3641 UNIVERSITY ST MTL ALTYRE HOUSE FORRES MORAY SCOTLAND	B COM 1 VI 4 6048
MITCHELL DOUGLAS CAMPBELL 3478 MCTAVISH ST MONTREAL QUE	B A 3 VI 2 7412	MOK CHI CHING BOX 123 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	PH B 2
MITCHELL ENID MADELEINE MACDONALD COLLEGE 588 COTE ST ANTOINE RD WESTMOUNT QUE	B SC M EC 1	MOK KWOK LEUNG RICHARD 3419 HUTCHISON APT 4 MTL 308 BAI YEUNG CHOI ST 1ST FLOOR KOWLOON HONG KONG	SEARCH 2 VI 5 0790
MITCHELL HARVEY 2575 BARCLAY AVE MONTREAL QUE	B ENG CH 4 RE 3 5409	MOLLENTHIEL GUY NORBERT 1547 MCGREGOR ST MTL 97 JOHN BROWN AVE PORT AU PRINCE HAITI	B ENG EL 4 WE 3 0394
MITCHELL HEGGS RAYMOND C 3506 UNIVERSITY ST MTL 88 HARLEY ST LONDON W 1 ENGLAND	B A 2 VI 4 0634	MOLONY CATHERINE EMMA MACDONALD COLLEGE R R 2 AYER S CLIFF QUE	3 TCHRS
MITCHELL JEAN ELIZABETH ROYAL VICTORIA COLLEGE 71 ELGIN ST GRANDY QUE	B SC 2 VI 2 0495	MOLSON ROBERT OWEN 3651 OKENDEN AVE MTL 1249 WEST 32ND AVE VANCOUVER B C	B ENG 2 VI 5 3538
MITCHELL KENNETH B 2029 METCALPE ST MONTREAL 3 QUE	B ENG 2 VI 9 6670	MOLSON STEPHEN THOMAS 10 RAMEZAY RD WESTMOUNT QUE	B COM 3 WE 5 7612
MITCHELL MARGARET W 3546 LORNE AVE APT 6 MTL 293 GLEN RD TORONTO ONT	M S W 1	MOLSON WALTER PATERSON WILSON HALL STANSTEAD COLLEGE STANSTEAD QUE	B A 2 VI 4 0624
MITCHELL SHARON RUTHE MACDONALD COLLEGE 4850 TRENHOLME AVE MONTREAL 29 QUE	3 TCHRS 1	MOLYNEAUX PATRICIA ANN 114 SLEDDAN AVE OAKVILLE ONT	MDICRAFTS 1
MITELMAN LESLIE 3745 COOLBROOK AVE MONTREAL QUE	B ENG EL 4 RE 3 8868	MOLYNEUX JUDITH ANNE BOX 178 MANIWAKI QUE	B SC P OT 4
MITHAKER BENJAMIN 4943 LACOMBE AVE MONTREAL QUE	M SC 1 RE 8 1303	MONAGHAN EDMOND DUPRE 3775 UNIVERSITY ST MTL 590 LAURIER AVE QUEBEC CITY QUE	M SC 1

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MONGRAIN GAETAN 5834 COTE DES NEIGES RD MONTREAL QUE	B A 2 RE 3 5764	MOORE ROBERT BRUCE 3440 SHUTER ST APT 50 MONTREAL QUE	PH D 3 VI 9 8014
MONKEWICH OSTAP 3430 ROSEMOUNT BLVD MONTREAL QUE	B ENG EL 4	MOORE ROBERT G 3431 DRUMMOND ST MTL 120 LAKEWAY DR OTTAWA ONT	B A 1
MONTANDON MARIANNE E ROYAL VICTORIA COLLEGE R R 1 BEDFORD QUE	B ED 3 VI 9 0858	MOORE SANDRA JEAN ROYAL VICTORIA COLLEGE STANSTEAD QUE	B A 3 VI 2 0327
MONTGOMERY DOROTHY ERMA BOX 70 SOUTH DURHAM QUE	B TCHRS 1	MOORE WILLIAM STANHOPE APT C 3 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	B SC AGR 4
MONTGOMERY ELEANOR ANNE ROYAL VICTORIA COLLEGE 12 RIDGEFIELD RD TORONTO 12 ONT	B A 2 VI 2 0526	MORA PHILIPPE FRANCOIS Y 23 SARAT RD WESTMOUNT QUE	B ENG EL 4 WE 5 0733
MONTGOMERY GEORGE F MACDONALD COLLEGE 4689 WESTMOUNT AVE WESTMOUNT 6 QUE	B SC AGR 1	MORAND PETER FRANK 53 ST LAWRENCE ST W LONGUEUIL QUE	PH D 4
MONTGOMERY HUGH WILLIAM MACDONALD COLLEGE 568 GROSVENOR AVE WESTMOUNT QUE	B SC AGR 3	MORDEN KENNETH ROBERT 3581 UNIVERSITY ST BOX 428 COPPER CLIFF ONT	B COM 2 VI 9 1368
MONTGOMERY JANET G 4689 WESTMOUNT AVE WESTMOUNT 6 QUE	B SC H EC 1 HU 6 3531	MOREAU PAUL EDMOND 4137 MARLOWE AVE MONTREAL QUE	B C L 1 HU 1 6948
MONTGOMERY JOAN AUDREY MACDONALD COLLEGE BOX 70 SOUTH DURHAM QUE	B TCHRS 1	MOREAULT MICHEL LIONEL 1310 PINE AVE MTL 43 FRONT ST HULL QUE	B C L 1 VI 4 0334
MONTGOMERY ROBERT BRUCE 3445 PEELE ST MTL 126 LORNE AVE LENNOXVILLE QUE	B ENG EL 3 VI 5 9462	MURPHY JOSEPH MAURICE C 3563 UNIVERSITY MTL 1061 DEMONTIGNY BILLYQUE QUE	B ENG CIV 4
MONTH MELVIN 4870 PLAMONDON AVE APT 2 MONTREAL QUE	M SC 1 RE 1 5289	MORGAN GRAHAM C C 135 FIELDFARE AVE BEAUREPAIRE QUE	B ENG 2 OX 5 6403
MONTOUTE RONALD ANTHONY F 3637 OXENDEN AVE MTL THE MORNE CASTRIES ST LUCIA W I	B ENG EL 2 VI 9 0504	MORGAN JAMES E 2214 GIRONQUARD AVE MONTREAL QUE	PH D 2
MOO YOUNG ALFRED JOSEPH BOX 24 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	M SC 1	MORGAN JANET HAMILTON H 9 LAMTON AVF HOWICK QUE	M A 2
MOON DOUGLAS HAMILTON 293 MORRISON AVE TOWN OF MT ROYAL QUE	B ENG 1 RE 8 1310	MORGAN MALCOLM BRUCE 5125 BOURRET AVE MONTREAL 29 QUE	B A 3 RE 7 6001
MOORE AUBREY GEORGE 5423 MACDONALD AVE MONTREAL QUE	B T M 2 HU 6 8897	MORIN JACQUES 221 OUTREMONT AVE MONTREAL QUE	B SC 1 CR 1 4372
MOORE DOUGLAS EDWARD 4800 DECARIE BLVD MONTREAL QUE	B ENG EL 4 HU 6 0875	MORIN MARTHA JILL ROYAL VICTORIA COLLEGE LACOLLE QUE	B SC 1 VI 2 0597
MOORE JEAN ANN 2145 HANOVER RD TOWN OF MT ROYAL QUE	B SC 1 RE 8 6087	MORISSETTE JACQUES LEO 3575 JEANNE MANCE ST MTL 410 3RD AVE VALD OR QUE	B ENG 2 AV 8 3429
MOORE JOHN FRANCIS 475 PINE AVE W MTL 57 WINDSOR AVE LONDON ONT	B COM 3 VI 4 4270	MORISSETTE SARTO 8563 ROSEMONT BLVD MTL 332 O MEARA ST THETFORD MINES QUE	B ENG EL 3 RA 7 5503
MOORE JOHN RICHARD 1 BROWN ST APT 14 STE ANNE DE BELLEVUE QUE	M A 1	MORLEY CLIFFORD G 3453 SHUTER ST MTL R R 1 WESTEYDE KAMLOOPS B C	B A 2 VI 9 4371
MOORE JOYCE BARBARA 1947 ST LUKE ST APT 5 BOX 6 WEST SWANZEY N H USA	MD CH 1 WI 2 9647	MORRELL RODNEY J 1730 DEPATIE AVE VILLE ST LAURENT QUE	B ENG 2 RI 7 8198
MOORE MARLENE JOAN ROYAL VICTORIA COLLEGE 630 ARGYLE ST REGINA SASK	B A 2 VI 2 0571	MORRIER DONALD ROBERT 4850 MADISON AVE MONTREAL QUE	B ENG CIV 5 HU 4 2682
MOORE RICHARD A 1879 DORCHESTER ST W MTL 613 WESTERN AVE WATERLOO QUE	B ED P ED 3 WE 7 7592	MORRILL MARY DEANNA LAIRD HALL 613 BELCOURT ST DRUMMONDVILLE QUE	B SC H EC 4

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MORRIS BARBARA JOYCE 721 STUART AVE OUTREMONT QUE	B A 1 CR 1 7832	MORSE THOMAS NICOLAS T 3581 UNIVERSITY ST MTL 828 SO CHURCH ST WEST CHESTER PA USA	B ENG CH 3 VI 9 1368
MORRIS BRIAN MICHAEL 1536 SUMMERHILL AVE APT 1A MTL 145 ST GEORGE ST APT 901 TORONTO ONT	B SC 2 WE 3 6013	MORTENSON ERIK 3609 UNIVERSITY ST MTL EINAHUPA 1 ALVDAL NORWAY	M SC 3 AV 8 6307
MORRIS EARL LAYTON 159 KINGS RD VALOIS QUE	B ENG PHY 5 OX 7 0748	MORTON CAROLA 3528 VENDOME AVE MONTREAL QUE	PARTIAL
MORRIS GLENDA ELLEN 11 AINSLIE AVE OUTREMONT QUE	B A 4 CR 9 9696	MOSCOVITCH ALAN GRAM 1095 DU RUISSEAU VILLE ST LAURENT QUE	B SC 1 RI 4 6117
MORRIS HERBERT GARRY P DOUGLAS HALL NORTH QUARRE WHEDDON CROSS NR MINEHEAD SOMERSET ENGLAND	B COM 2 VI 5 2057	MOSCOVITCH CAROLE SUE 4782 MAPLEWOOD AVE MONTREAL QUE	B A 2 RE 9 3875
MORRIS KEITH DESMOND ST C 546 PINE AVE W APT 6 MTL 99 HIGHGATE JAMAICA W I	D D S 1 VI 4 7963	MOSCOVITCH DAVID HIRSCH 5729 DAVIES AVE MONTREAL 29 QUE	M SC 2 HU 1 7896
MORRIS KENNETH M 4977 VICTORIA AVE MONTREAL QUE	B ENG 2 HU 9 1726	MOSCOVITCH GARY 4660 DUBUIS AVE APT 5 MONTREAL QUE	B C L 2 RE 9 6720
MORRIS LEEBON RANDAL 204 VICTORIA ST MTL RIVER HEIGHTS PENNANTS P A CLARENDON JAMAICA W I	B SC 1 VI 9 0667	MOSCOVITCH HENRY 3029 ST SULPICE RD MONTREAL QUE	B A 2 WE 7 3254
MORRIS MARGARET GAYE 851 ROLLAND AVE VERDUN QUE	B A 2 PO 7 5486	MOSCOVITZ JUDITH 4614 WILSON AVE MONTREAL 28 QUE	B A 2 HU 6 7968
MORRIS ROGER ST ELMO D C 3543 JEANNE MANCE ST MONTREAL QUE	B COM 3 VI 5 0491	MOSCOVITZ WALTER 7085 CHESTER AVE MONTREAL QUE	B SC 2 HU 9 2677
MORRIS SHIRLEY E ROYAL VICTORIA COLLEGE 125 FIRST ST E CORNWALL ONT	B SC 1 VI 2 0571	MOSELEY COLIN F 170 HIGHFIELD AVE MONTREAL QUE	B ENG EL 3 RE 8 1382
MORRIS STANLEY PHILIP 721 STUART AVE OUTREMONT QUE	PH D 1 CR 9 2966	MOSES ARTHUR 4917 JEAN BRILLANT MONTREAL QUE	B A 1 RE 8 7551
MORRISON ANTHONY D DOUGLAS HALL 4770 W 2ND AVE VANCOUVER 8 B C	MD CM 1	MOSHER THOMAS F DOUGLAS HALL COEYMANS NEW YORK N Y USA	MD CM 2 VI 5 7849
MORRISON GARNET M MACDONALD COLLEGE GOULD QUE	2 TCHRS 2	MOSHONAS MARINA ANGELA MACDONALD COLLEGE 771 37TH AVE LACHINE QUE	2 TCHRS
MORRISON HUNTLY FRANK 5975 N D G AVE MONTREAL 28 QUE	M SC 1 HU 4 6608	MOSS CAROL LISA 5721 WESTMINSTER AVE COYE ST LUC QUE	B SC 2 HU 6 8694
MORRISON KEITH INGLIS 3433 HUTCHISON ST MONTREAL QUE	B A 3 AV 8 4790	MOSS ELEANOR 6055 MACDONALD AVE MONTREAL QUE	B A 1 RE 7 7492
MORRISON ROBERT WILLIAM 3633 OXENDON MTL 6195 N D G AVE MONTREAL QUE	B ENG PHY 5 AV 8 6896	MOSS FREDERICK A 5050 WALKLEY AVE MONTREAL 29 QUE	B ENG 2 HU 4 8081
MORRISSETTE PAUL JEAN 125 DUFFERIN RD HAMPSHIRE QUE	B ENG 2 HU 6 2862	MOSS HARVEY 2865 GOYER ST APT 20 MONTREAL QUE	M S W 2 RE 1 2915
MORROW ROBERT I NO 1 EAST COTTAGE MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	PARTIAL	MOSS LEWIS MAYER 649 MILTON ST MTL 39 STETSON ST BROOKLINE MASS USA	B SC 1
MORSE GWENDOLYN D ROYAL VICTORIA COLLEGE 255 METCALFE ST APT 53 OTTAWA ONT	B A 2	MOTHERWELL IAN G S 4326 MONTROSE AVE WESTMOUNT QUE	B A 1 WE 5 4774
MORSE STEARNS ANTHONY 3464 HUTCHISON ST MTL 4 NO PARK ST HANOVER N H USA	PH D 3 VI 4 2938	MOULAND ALBERT DOUGLAS 3508 UNIVERSITY ST MTL SONAVISTA MPLD	B D 1
		MOULE JOHN WILLIAM 428 SHERBROOKE ST W APT 25 MTL 68 NORTH OVAL HAMILTON ONT	MD CM 3
		MOUNT GRAEME S 39 BRYNMAOR AVE MONTREAL WEST QUE	B A 3 HU 8 7078

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MOURATIDES ANASTASIO I P O BOX 1054 STN B MTL ATHENS GREECE	M A 2 VI 4 6596	MUNOZ STANLEY R 4699 ST URBAIN ST MTL 1309 BERTRAM ST KELOWNA B C	B A 3 VI 2 2877
MOUSSEAU PIERRE PAUL 8164 ST HUBERT ST MONTREAL QUE	B C L 1 CR 7 1313	MUNRO ELIZABETH ANN 779 UPPER BELMONT AVE WESTMOUNT QUE	MED DIPL 1 HU 6 4755
MOWAT DAVID N BOX 183 MACDONALD COLLEGE 940 WINNINGTON AVE OTTAWA ONT	M SC 2	MUNRO IAN C R R 2 RICHMOND ONT	B SC AGR 2
MOWAT FRANCES ELIZABETH ROYAL VICTORIA COLLEGE 15 PARK ST W COPPER CLIFF ONT	B SC 3 VI 9 0180	MUNRO JAMES ALBERT 779 UPPER BELMONT AVE WESTMOUNT QUE	B COM 2 HU 6 4755
MOWAT WILLIAM MICHAEL 1336 SHERBROOKE ST W MTL 18 ANTIOCH DR ISLINGTON ONT	B A 2 VI 2 5031	MUNRO LILLIAN BESSIE 418 CLAREMONT AVE APT 34 MONTREAL QUE	GRAD DIP HU 4 3836
MROSCZCZAK WITOLD EDWARD 328 CLEMENT AVE DORVAL QUE	B SC 4 ME 1 8349	MUNRO LYALL JESSE 3575 JEANNE MANCE ST MTL 94 ST MAURICE AVE NORANDA QUE	B ENG 2 AV 8 3304
MROZ HARRY 2840 VAN HORNE AVE APT 8 MONTREAL QUE	B ENG EL 4 RE 3 3926	MUNRO SANDRA MAY MACDONALD COLLEGE 901 ALLARD AVE VERDUN QUE	B TCHRS 1
MUBARAK NASRELDIN 3513 HUTCHISON ST APT 2 942 2 5 OMDURMAN SUDAN AFRICA	B C L 2 AV 8 9811	MUNRO WILLIAM RICHARD B 380 ROSLYN AVE WESTMOUNT QUE	B SC 4 WE 7 1367
MUHLSTOCK BRAHM M 1785 VAN HORNE AVE OUTREMONT QUE	B SC 2 RE 8 6917	MUNROE JAMES PARKER 545 PINE AVE W MTL R 3 A M C SCHOOL CAMP BORDEN ONT	MD CM 4
MUI DAVID YICK HUNG 70 WESTMINSTER AVE N MONTREAL WEST QUE	B ENG COM 5 HU 4 6080	MURCHISON WILLIAM T DOUGLAS HALL L M CAMPOS 1700 BS AS ARGENTINA	B COM 1
MUI JEFFREY YICK PUI 70 WESTMINSTER AVE N MTL 59 BONHAM RD 1ST FL HONG KONG	B SC 2	MURDOCK ALAN IRVING 419 PRINCE ARTHUR ST W 651 ISLAND PARK DR OTTAWA ONT	MD CM 1 VI 9 3364
MUIR WILLIAM RUSSEL 4640 DOHERTY AVE MONTREAL 28 QUE	B A 3 HU 4 2580	MURPHY CHARLES L 1967 BAILE ST MONTREAL QUE	M ENG 2 WE 3 5764
MUIRHEAD GOULD A C DOUGLAS HALL LAVANDOU ST BRELAGE JERSEY CHANNEL ISLES	B SC 4 VI 5 2375	MURPHY DANIEL JOSEPH 3431 DRUMMOND ST MTL 410 HINTON AVE OTTAWA ONT	B ENG CIV 4 VI 9 0243
MUKABIE LEONARD HARRY 6297 DE VIMY AVE MONTREAL QUE	B COM 4 RE 8 3710	MURPHY DAVID ALTON 28 BROCK AVE N MONTREAL QUE	MD CM 4 HU 8 6633
MULLALLY MARY ANNE 2204 ADDINGTON AVE MONTREAL QUE	M A 1 HU 4 4177	MURPHY EARL BRYAN 6743 ST DOMINIQUE ST MONTREAL QUE	B ARCH 3 CR 6 1248
MULLER RUTH D STEWART HALL 525 WALNUT AVE ST LAMBERT QUE	2 TCHRS 2	MURPHY GERARD FRANCIS 816 JEAN TALON ST W MTL 32 AVON ST WALNEY ISLAND BARROW IN FURNESS LANCASHIRE ENGLAND	PH D 3 CR 1 3201
MULLER THOMAS 5545 COTE ST LUC PD APT 42 MONTREAL QUE	PARTIAL HU 8 7957	MURPHY HENRY JOHN 380 WILLOWDALE AVE APT 22 OUTREMONT QUE	B SC 4 RE 9 8358
MULLONEY BRIAN CLAYTON 3453 SHUTER ST MTL 93 FRANKLIN ST LEE MASS USA	B SC 1 VI 9 4371	MURPHY IAN DEIGHTON 3549 LORNE AVE MONTREAL QUE	MD CM 4 AV 8 1687
MUMBY HEATHER R LAIRD HALL 1575 BEAUDET ST VILLE ST LAURENT QUE	2 TCHRS 2	MURPHY JEFFERY THOMAS B BRITTAIN HALL CALUMET QUE	2 TCHRS 1
MUMBY LYNN WILLIAM 1575 BEAUDET ST VILLE ST LAURENT QUE	B ENG MCH 3 RI 7 4038	MURRAY DONALD JOSEPH JOHN 1310 PINE AVE W MONTREAL QUE	D D S 1 VI 4 0334
MUNKITTRICK DALE EDWARD BRITTAIN HALL 41 BELVEDERE ST LENNOXVILLE QUE	B ED P ED 1	MURRAY EDWARD ROSS 73 FINCHLEY RD HAMPSTEAD QUE	B ENG MCH 5 HU 1 3506
		MURRAY PAMELA ANN ROYAL VICTORIA COLLEGE BOX 36 SERGE COLORADO ARUBA NETHERLANDS ANTILLES	B A 1 VI 2 0597

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MURRAY ROBERT KENNETH BRITAIN HALL 46 SURREY DR TOWN OF MT ROYAL QUE	M S D DIP	NADLER ALOIS BERNHARD 456 PINE AVE W APT A MONTREAL QUE	B ENG MCH 3 VI 9 7268
MURRO SERAFINA SARA 8057 PAPINEAU ST MONTREAL QUE	B A 3 RA 8 5459	NADLER KARL EDUARD 4275 ST DOMINIQUE ST MONTREAL QUE	B COM 1 VI 9 7268
MUSCHENHEIM FREDERICK 430 WILLOWDALE AVE OUTREMONT QUE	MD CM 1 RE 9 8579	NADLER PAUL 434 MORRISON AVE TOWN OF MT ROYAL QUE	B A 1 RE 8 3003
MUSER CYNTHIA ROYAL VICTORIA COLLEGE 520 EAST 86 ST NEW YORK 28 NY USA	B A 1 VI 9 0993	NADLER LINDA RUTH 23 LEGAULT ST STE ANNE DE BELLEVUE QUE 5566 ALPINE AVE MONTREAL 29 QUE	2 TCHRS
MUTHER THOMAS F 687 WILTON APT 4 MONTREAL QUE	M SC 1 AV 8 9625	NADOR STEVEN 5370 MACDONALD AVE MONTREAL QUE	B ENG 1 HU 8 6651
MUUL HEITI 15 LAURELWOOD AVE PT CLARE QUE	B SC 1 OX 5 3223	NAGARAJAN RAMAKRISHNAN 3583 DUROCHER ST MTL 19 COOVAM RIVER RD CHINTADRIPEY MADRAS INDIA	PH D 3
MUZIN SANDRA RIVA 14 BROWN ST STE ANNE DE BELLEVUE QUE 403 ST JOSEPH BLVD W APT 4 OUTREMONT QUE	3 TCHRS	NAGEON DE LESTANG GILLES BRITAIN HALL BOX 82 MAHE SEYCHELLES	B SC AGR 3
MUZYKA MICHAEL ZENON 7767 EDWARD ST LASALLE QUE	B ENG EL 3 DO 6 8637	NAGEON DE LESTANG JEAN A 3586 DUROCHER ST APT 12 BOX 82 MAHE SEYCHELLES	B ENG 2 AV 8 7610
MYERS ALLAN STEPHEN 5757 NORTHMOUNT AVE MONTREAL QUE	B A 1 RE 8 3722	NAGY GEORGE 2068 SHERBROOKE ST W MONTREAL QUE	M ENG 1 WE 2 7403
MYERS BEVERLY ANN 4854 HARVARD AVE MONTREAL QUE	MD CM 3 HU 4 1966	NAGY JOSEPH NORMAN CARL 26 LAFLEUR AVE LASALLE QUE	B ENG CIV 5 DO 6 3284
MYERS CURTIS C C O POWER STATION CASTRIES ST LUCIA W I	B SC AGR 3	NAGY REKA ROSE 1385 BERNARD AVE APT 19 MONTREAL QUE	B A 1 CR 3 3786
MYERS MARILYN FRANCES 4550 GRAND BLVD MONTREAL QUE	B A 3 HU 8 7357	NAIK VITHAL RAJARAM PETERSON HALL 15761 PRINCESS ST BOMBAY 2 INDIA	M SC 2
MYERS WILLIAM ROBERT 4728 FULTON ST MONTREAL 26 QUE	B T M 1 RE 9 8795	NAIMAN JUDITH HARRIET 3600 UNIVERSITY ST MTL 78 SHIELDS AVE TORONTO ONT	M S W 1
MYERSON EILEEN JUNE 553 CHAMPAONEUR AVE OUTREMONT QUE	B A 3 CR 1 9740	NAIMARK ALLAN PETER 5854 DECELLES PL MONTREAL QUE	MD CM 4 RE 3 4849
MYERSON LEONARD SELIG 4965 CARLTON AVE APT 3 MONTREAL QUE	B COM 4 RE 7 3809	NAIMER GORDON 575 GLENGARRY AVE APT 104 TOWN OF MT ROYAL QUE	B A 1 RE 8 2706
N			
NA CHIANGMAI PRABHA 3426 STANLEY ST MTL 28 VENAROAD RD BANGKOK THAILAND	GRAD DIP VI 4 8316	NAJMAN LEON 4059 DORCHESTER ST W MONTREAL QUE	B ENG COM 5 WE 2 9700
NA CHIENGMAI CHAO P 3449 PEEL ST MTL 196 LAMPOON RD CHIENGMAI THAILAND	GRAD DIP VI 4 0722	NANJAN MAHENDRA 4711 PRINCE ARTHUR ST W 35 D CIVIL LINES BAREILLY INDIA	M SC 2 AV 8 8867
NADAL LYNN 3431 DRUMMOND ST MTL 905 162ND ST WHITESTONE 87 NY USA	B SC 1 VI 9 0243	NARAIN MARGARET JOY ROYAL VICTORIA COLLEGE 125 BARRACK ST GEORGETOWN BRITISH GUIANA S A	B SC P OT 1 VI 2 0571
NADAL MARTIN ALLAN 2804 WILLOWDALE AVE MONTREAL QUE	B COM 2 RE 8 3051	NARBONNE RENE JEAN ANDRE 11878 BUZOR COTE ST MONTREAL QUE	B ENG CH 4 PE 4 1047
NADALL SHIRLEY RIVA 2800 WILLOWDALE AVE MONTREAL QUE	M S D DIP RE 8 2068	NARWANI KISHORE P 3655 OKENDEN AVE MTL P O BOX 280 GEORGETOWN BRITISH GUIANA	MD CM 2 VI 9 3014
NADI BEKELE 3815 UNIVERSITY ST MTL ATO NADI BOX 740 ADDIS ABABA ETHIOPIA	B CL 2 AV 8 1966	NASEER SYED MOHAMED K B S M MANSOOF DUDHPUR CIVIL LINES ALIGARH INDIA	M A 1

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NASON MARGARET R 3480 ONTARIO AVE MTL 11 MT PLEASANT AVE DARTMOUTH N S	B SC P OT 3 VI 2 0044	NEMIROFF GERALD 740 WILDER AVE MONTREAL QUE	B SC 1 RE 6 5669
NASSAR MICHAEL ALEXANDER 7230 10TH AVE VILLE ST MICHEL QUE	B ENG 1	NEPTUNE SHEILA Y LAIRD HALL MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	B SC MEC 2
NASSE JOHN THOMAS 3466 MCTAVISH ST MTL R F D 2 EAST FORD RD SOUTHBIDGE MASS USA	MD CM 4 AV 8 9533	NERENBERG MORTON ABRAHAM 4720 DUPUIS APT 10F MONTREAL QUE	PH D 3 RE 3 9131
NATHAN PETER STEVEN 3483 PEEL ST MTL P O BOX 3587 MANILA PHILIPPINES	B A 3 VI 2 0882	NERMAN YALE 3105 BEDFORD RD APT 14 MONTREAL QUE	MED DIPL 2 RE 9 1176
NATHANS ARLENE SHEILA 6243 DE VIMY AVE MONTREAL QUE	B A 1 RE 7 9441	NEROUTSOS PHILIP NEILL 1375 DUNVEGAN RD MONTREAL 16 QUE	D DS 4 RE 8 6066
NATHANSON BEVERLY ANN 5500 BRADFORD PL MONTREAL QUE	B A 1 RE 7 3563	NESSITT ARTHUR R 3269 CEDAR AVE WESTMOUNT QUE	B A 3 WE 2 0205
NATHANSON MARTIN MAURICE 3785 DUPUIS AVE APT 10 MONTREAL QUE	B SC 3 RE 8 3630	NESSITT CLARE ELIZABETH ROYAL VICTORIA COLLEGE 388 ELM ST WINNIPEG 9 MAN	B A 4 VI 2 0477
NAUGLER FREDERIC PAIST 3506 UNIVERSITY ST MTL 165 TERRACE DR SAN FRANCISCO CALIF USA	B SC 3 VI 4 0624	NESSITT ROBIN CARTER 70 UNION BLVD ST LAMBERT QUE	B ENG CIV 5 OR 1 9401
NAVABAT TANOMCHIT 3449 PEEL ST MTL 178 SOISKHA 1 HAUPOIJ RD BANGKOK THAILAND	GRAD DIP VI 4 0722	NESSITT VICTORIA AIRD 3243 WESTMOUNT BLVD MONTREAL QUE	B A 4 WE 5 1376
NEBESAR BORIS 3426 STANLEY ST MONTREAL 2 QUE	PH D 2 VI 4 0360	NESTER STAN 4972 LACOMBE AVE MONTREAL QUE	B SC 2 RE 8 1873
NEEDHAM HAROLD GEORGE BRITTAIN HALL 188 CHANOINE SCOTT STE FOY QUE	2 TCHRS 1	NETSCHAY WALTER 6577 89TH AVE MONTREAL 36 QUE	B SC 3 RA 8 6968
NEEDLER GEORGE T 2177 ST LUKE ST MTL PACIFIC BIOLOGICAL STA NANAIMO B C	PH D 2 WE 5 1089	NETTERFIELD THOMAS M 3 DECARY PL DORVAL QUE	B ENG CIV 3 ME 1 3733
NEGRU LENA 4017 GREY AVE MONTREAL 28 QUE	M S W 1 HU 4 3231	NEUFELD MURIEL ANNE 204 KINDERLEY AVE TOWN OF MT ROYAL QUE	B SC 3 RE 8 2122
NEIL GRAHAM I BRITTAIN HALL R R 1 GRANBY QUE	B ED P ED 2	NEUFELD PETER 801 11TH AVE LACHINE QUE	2 TCHRS ME 7 5950
NEILD BARBARA J 4550 WALKLEY AVE APT 19 MONTREAL 28 QUE	B ED 4 HU 1 9204	NEUGEBAUER HENRY EDWIN O 1001 SHERBROOKE ST W MTL 99 LANDING RD ROCHESTER N Y USA	B SC 3
NEILL RONALD FREDERICK 110 HEBERT ST MTL DUNANY QUE	B ENG MCH 5 RI 4 3115	NEUMEIER ERNEST MICHAEL 4670 COOLBROOK AVE MONTREAL QUE	B SC 2 HU 8 6235
NEILSON BARBARA ANN MACDONALD COLLEGE 12 5TH AVE TERRASSE VAUDREUIL QUE	B SC AGR 4	NEUMANN URIEL MEYER 1574 VAN HORNE AVE OUTREMONT QUE	B C L 4 CR 6 0581
NEIMAN BRENDA 714 MCEACHRAN AVE OUTREMONT QUE	B SC 1 CR 2 3484	NEVILLE JEAN DORIS MACDONALD COLLEGE FORT COULONGE QUE	M A 2
NEISS MARVIN 4760 BARCLAY AVE APT 7 MONTREAL QUE	B C L 1 RE 7 1403	NEVILLE JOHN WINSTON 1440 BERNARD AVE W APT 18 MONTREAL 8 QUE	B ENG 1 CR 2 9441
NEVEDLY PETER THOMAS 8940 LUMDEN ST MONTREAL 11 QUE	B ENG EL 4 DU 1 6804	NEVILLE ROBERT J 2039 MCGILL COLLEGE AVE APT 28 MTL 608 QUEBEC ST SHERBROOKE QUE	B ENG 2 VI 5 1623
NEMETZ HAROLD 4100 COTE STE CATHERINE 117 NORTH GALE DR BEVERLY HILLS CALIF USA	D DS 2 RE 3 5552	NEWBERG LEWIS BARRY 3483 PEEL ST MTL 7419 260TH ST FLORAL PARK LONG ISLAND N Y USA	B SC 4 VI 2 0882
		NEWCOMBE EDWARD HERBERT 3466 MCTAVISH ST MTL 4008 EDMONT BOISE IDAHO USA	MD CM 3 AV 8 9533

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NEWELL JOHN COLETON 3478 MCTAVISH ST MTL BOX 89 PICKERING ONT	B SC 3 VI 2 7412	NICHOLS ANTHONY ROBIN 3637 UNIVERSITY ST MTL MOONFLEET CHESTER N S	B ENG CH 8 VI 9 1736
NEWOLOSKI GENEVIEVE 579 PAUL PAU ST MONTREAL QUE	B A 3 CL 5 9825	NICHOLLS PETER JOHN 5690 QUEEN MARY RD HAMPSTEAD QUE	B SC 1 HU 1 9109
NEWHAM WALTER DAVID NOEL 1500 STANLEY ST APT 623 27 PRINCESS DR HIGHLANDS SALISBURY SOUTHERN RHODESIA	M SC 2 AV 8 5504	NICHOLSON GORDON RICHARD 475 PINE AVE W MTL GOULD QUE	D DS 1 VI 4 4270
NEWMAN ANN S 421 GLENGARRY AVE TOWN OF MT ROYAL QUE	2 TCHRS RE 3 0480	NICHOLSON VERONICA M MACDONALD COLLEGE 19 CONSTABULARY ST CARENAGE TRINIDAD T W I	B SC M EC 1
NEWMAN PETER GILBERT 421 GLENGARRY AVE TOWN OF MT ROYAL QUE	B COM 1 RE 3 0430	NICKLESS DONALD WILLIAM BRITAIN HALL 705 42ND AVE LACHINE QUE	B SC 3
NEWMAN ROBERT NATHAN 4107 DE LA PELTRIE MONTREAL QUE	B SC 2 RE 1 5235	NICKSON JUNE BERTHA 360 DESAULNIERS BLVD ST LAMBERT QUE	B SC P OT 4 OR 1 8418
NEWMAN SHERRILL GAY 158 DUFFERIN RD HAMPSTEAD QUE	B SC 3 HU 4 2592	NICOLAIDIS COSTAS 5748 PARK AVE MONTREAL QUE	B ARCH 4 CR 4 7893
NEWMAN SONIA DEANE 3302 CEDAR AVE WESTMOUNT QUE	B A 3 WE 2 1870	NICOLLE ROBIN EDWARD B 5673 MCLYNN AVE MONTREAL 29 QUE	B ENG 1 RE 8 7435
NEWSOM JOHN ARDEN 3626 LORNE CRES APT 2 8211 EDMARU AVE S WHITTIER CALIF USA	MD CM 1	NIDEROST ADRIAN CARL 161 DUFFERIN RD MONTREAL 29 QUE	B ENG MCH 4 HU 1 3537
NEWTON DOUGLAS ALLAN 33 SUNNY ACRES DR BAIE D URVEE QUE	B ENG CIV 5	NIEDERHOFFER MALVINA 2080 GOYER ST MONTREAL QUE	B A 2 RE 7 5786
NEY JULIAN 3440 RIDGEWOOD AVE APT 21 MONTREAL QUE	B ENG CIV 5 RE 1 6923	NIJHOWNE TILAK 3342 LORNE AVE APT 10 MONTREAL QUE	M A 1
NG CHI YEUNG PATRICK 471 PRINCE ARTHUR ST W 24 GREEN LANE GR FL HAPPY VALLEY HONG KONG	B ARCH 3	NIESENBAUM ROGER 921 ROCKLAND AVE OUTREMONT 8 QUE	B SC 1 CR 9 2662
NG KIT FING PETER 3517 HUTCHISON ST APT 2 12 OSMANTHUS RD HONG KONG	B SC 4 VI 9 0109	NITIN IRVING MAX 1466 DUCHARME APT 20 OUTREMONT QUE	M ENG 1 CR 7 3827
NG KON CHOI HENRY 539 PRINCE ARTHUR ST W APT 3 MONTREAL 8 QUE	B ARCH 3	NIXON MARJORIE A 376 STRATHCONA DR TOWN OF MT ROYAL QUE	B SC 4 RE 3 2560
NG PETER YIP CHUEN 3712 JEANNE MANCE ST APT 4 MTL 8 OSMANTHUS RD YAU YAT CHUEN HONG KONG	B ENG MCH 3 VI 5 6014	NIXON MURRAY DUNLAP 3654 OXENDEN AVE APT 8 182 QUEEN ST ST JOHN N S	MD CM 4 VI 5 6842
NG SHUNG TO 7 JUNCTION RD 1ST FL HONG KONG	B SC 3	NIXON STEPHANIE JEAN 376 STRATHCONA DR TOWN OF MT ROYAL QUE	B SC 1 RE 3 2560
NG TING KWONG WILKIN 3524 BURCHER ST APT 8 434 NATHAN RD KOWLOON HONG KONG	B SC 3	NOBBS PETER F S COMO QUE	B ENG 1
NG YIN CHING MARJORIE ROYAL VICTORIA COLLEGE 1 NING YEUNG TERR BONHAM RD HONG KONG	B SC 3 VI 2 0147	NOBEL BARBARA RUTH 629 ROCKLAND AVE OUTREMONT QUE	B A 1 CR 6 6431
NGUI KON SUE LYNTON 3549 LORNE AVE MTL 17 BRICKDEM GEORGETOWN BRITISH GUIA.JA	D D S 2 VI 5 0691	NOBLE PAUL CAMPBELL 4441 OXFORD AVE MONTREAL QUE	M A 1 HU 8 4087
NIJAZI IQBAL AHMAD 633 UNDERHILL PL MTL 157299 M G RD KANFUR U P INDIA	PH D 4 VI 5 8930	NOEL PATON FREDERICK R 3426 HUTCHISON ST APT 7 CULTER HOUSE BIGGAR LANARKSHIRE SCOTLAND	B A 2 AV 8 7645
NICHOL RONALD ROBERT 877 51ST AVE LACHINE QUE	B COM 3 ME 7 7875	NOGRADY MARIE BERNADETTE 5886 DECELLES APT 16 MONTREAL QUE	MED DIPL 1 RE 1 4462
		NOLTING KATHRYN ANNE 4038 MARCIL AVE MONTREAL 28 QUE	3 TCHRS HU 4 3380
		NORAK ENN 12103 ST EVARISTE MONTREAL QUE	B ENG EL 4 RI 4 6813

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NAME ADDRESS	COURSE & YEAR TEL. NO.	NAME ADDRESS	COURSE & YEAR TEL. NO.
NORMAN DAVID DOUGLAS HALL 612 WEST FRANKLIN ST RICHMOND VIRGINIA USA	B A 2	NUSSELMAN SANDRA MARION 3840 KENT AVE MONTREAL QUE	B A 1 RE 6 7784
NORMAN RALPH GREVILLE 235 32ND AVE LACHINE QUE	B EC 1 ME 7 9246	NUTIK STEPHEN LAWRENCE 409 CLARKE AVE WESTMOUNT QUE	B EC 4 WE 2 5507
NORMAN RUSSELL ALLAN 668 BRAULT AVE VERDUN QUE	H S D DIP PO 7 3182	NUTTER MARY CATHERINE M 9 BURTON AVE WESTMOUNT QUE	H S D DIP MU 8 4024
NORMAND GERARD LEO 890 ST CHARLES APT 6 ST LAMBERT QUE	PH D 2 OR 1 3510	NYENHUIS LUCIA TUDOR STEWART HALL 5400 QUEEN MARY RD APT 19 MONTREAL 29 QUE	B SC H EC 3
NORMANDEAU LOUISE 3525 LINTON AVE APT 9 MONTREAL 26 QUE	GRAD DIP RE 7 1943	NYMARK KARL A W L 2039 MCILL COLLEGE AVE APT 28 MTL ST SAUVEUR DES MONTE QUE	B ENG 2 VI 5 1623
NORRIS PATRICIA EILEEN 3465 DRUMMOND ST MONTREAL QUE	B A 2 VI 4 4735	NYON EKPO ABUQUO 3489 HUTCHISON ST MONTREAL QUE	B A 2 AV 6 4858
NORTHEY JOAN MARLENE 42 CHESTERFIELD ST MTL LAKEFIELD ONT	B N 2		
NORTON CHRISTOPHER EDWARD WILSON HALL 36 BROMLEIGH COURT FOREST HILL LONDON S E 23 ENGLAND	B ENG CH 4 VI 4 0624		
NORTON ELIZABETH H STEWART HALL 4562 CORONATION AVE MONTREAL QUE	B ED 2	OAKLEY NEIL STANLEY 3851 UNIVERSITY ST MTL RIVERS MAN	B SC 4 VI 5 0934
NOSEWORTHY GORDON LIONEL 174 GRAEBROOK AVE PTE CLAIRE QUE	B A 2 OX 7 0998	OSERMAN LILA 5563 KING GEORGE AVE COTE ST LUC QUE	B A 2 MU 4 0637
NOSEZKA JULIUS 3717 JEANNE MANCE ST MONTREAL QUE	B ENG 2 VI 5 3649	O BRIEN GERALD J DOUGLAS HALL 1426 NYE ST SAN RAFAEL CALIF USA	MD CM 1
NOTKIN LESLIE IRWIN 3742 THE BOULEVARD WESTMOUNT QUE	B COM 4 HU 6 2310	O CONNELL THOMAS A 1440 REDPATH CRES MTL 624 GILBERT ST HELENA MONTANA USA	B SC 3 VI 5 8502
NOTOAMIDJOJO KENDARSE R 3474 MCTAVISH ST MONTREAL QUE	B SC 4 VI 2 0805	O CONNOR CHARLES D ARCY 7 LANSDOWNE ODNS PTE CLAIRE QUE	B ENG 1 OX 5 4893
NOVAK BENNO 3463 SHUTER ST APT 8 MONTREAL 18 QUE	B ENG CIV 5 AV 6 3391	O CONNOR TERENCE PATRICK 6630 45TH AVE MONTREAL 36 QUE	B C L 4 RA 8 1732
NOVICK MARVYN ROBERT 6350 WESTBURY AVE MONTREAL QUE	B A 3 RE 1 5635	ODER REIN 98 LAPELIERE ST MONTREAL 9 QUE	B ENG EL 4 RI 4 2035
NOWICKI JOHN MAURICE A 55 ALLARD AVE DORVAL QUE	B ENG EL 1 ME 1 5452	OELMANN PETER 130 LEWIS AVE WMT HAMBURG 13 LAUFORABEN 35 GERMANY	B ENG MCH 3 WE 7 1300
NOWIK JOHN ROBERT 4725 CARLTON AVE MONTREAL QUE	MD CM 3 RE 3 1258	OFFICER LAWRENCE HOWARD 6267 MOUNTAIN SIGHTS AVE MONTREAL QUE	B A 4 RE 8 6311
NOZETZ FRANCES 39 NELSON AVE OUTREMONT QUE	B SC 1 CR 4 9951	OFFORD DAVID R MONTREAL GENERAL HOSP 1630 CEDAR AVE MONTREAL QUE	MED DIPL 2
NOZETZ TOBI 39 NELSON AVE OUTREMONT QUE	B SC 2 CR 4 9951	O FLAHERTY WILLIAM JAMES 5230 CUMBERLAND AVE MONTREAL QUE	MD CM 4
NUDELMAN JOSEPH MICHAEL 657 DE L EPEE AVE OUTREMONT QUE	B COM 1 CR 1 4875	OILVIE MICHAEL J 1520 MCQUEEN ST APT 41 MONTREAL QUE	B C L 2 WE 7 9677
NUEMAN MICHAEL K 4785 ST KEVIN APT 6 MONTREAL QUE	D D 2 1 RE 8 3466	OILVY CAROLINE GERTRUDE ROYAL VICTORIA COLLEGE BOX 61 RINGWOOD ONT	B SC 2 VI 2 0634
NUGENT ARNOLD A MACDONALD COLLEGE LEMERBURIER QUE	B SC AGR 1	OGRYZLO CHARLES THOMAS 3490 DRUMMOND ST MTL 31 GORDON RD WILLOWDALE ONT	B ENG MCH 4 VI 4 0663
NUNES MARIA DO AMPARO ROYAL VICTORIA HOSPITAL 606 FERREIRA VALENTE ST FORTALEZA CEARA BRAZIL	MED DIPL 1	O HARA PATRICK A 5373 HUTCHISON ST MONTREAL QUE	B ENG EL 3 CR 2 0573

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NAME ADDRESS	COURSE & YEAR TEL. NO.	NAME ADDRESS	COURSE & YEAR TEL. NO.
O HASMI DAVID AKIRA 3610 DUCHOCHER ST APT 18 1937 ANOUS ST REGINA SASK	MD CM 1 VI 9 4479	O NEILL JOHN WILLIAM 538 MILTON ST MTL 3RD AVE NO 4609 MIRAMAR HAVANA CUBA	B A 3 VI 9 5412
OKILL GIFFORD L 4594 COOLBROOK AVE MONTREAL QUE	B COM 3 MU 9 5626	ONNO PETER 6001 COTE ST LUC RD APT 207 MONTREAL 26 QUE	M SC 1 HU 9 5247
OKIWE ANIZOBA GEORGE 538 PRINCE ARTHUR ST W MONTREAL QUE	B COM 2	OMEN CORNELIA 26 PERRAULT AVE STE ANNE DE BELLEVUE QUE	B ED P ED 4
OKO MICHAEL URIEL 5292 PARK AVE MONTREAL 8 QUE	B ENG MET 4 CR 2 7049	OMEN PETER 26 PERRAULT AVE STE ANNE DE BELLEVUE QUE	B ENG 1
OKORTE SAMUEL A 3473 UNIVERSITY ST MTL TOWN OF ORIM ORIM NIGERIA WEST AFRICA	PH D 2 VI 9 1791	OOSTDAM BERNARD LODEWYK DOUGLAS HALL MR REMONDPLAAN 16 AMSTELVEEN HOLLAND	B SC 3
OKULAJA FOLUSO O 2046 VICTORIA ST MTL 83 BANGBOSE ST LAGOS NIGERIA	B SC 3 VI 5 7900	OPHER JACOB 1555 MCGREGOR ST MONTREAL QUE	B ENG AM 5 WE 7 3937
OLAND JANE MARY HOWARD 495 PRINCE ARTHUR ST W APT 12 MTL ROTHESAY N B	B L S 1 AV 8 7968	ORBACH ERVIN 5330 BEESBOROUGH MONTREAL QUE	B A 3 HU 9 6675
OLESKER HELEN M 596 GROSVENOR AVE WESTMOUNT QUE	B A 2 HU 8 8257	ORBACH MARVIN 22 RADCLIFFE RD MONTREAL WEST QUE	B A 3 HU 1 3389
OLESEVICH PAUL ANTHONY SMOOTH ROCK FALLS ONT	B ENG CIV 3	ORDOWER RALPH M 2350 BEDFORD RD MONTREAL QUE	B CL 2 RE 1 1241
OLIPHANT BARBARA ANNE ROYAL VICTORIA COLLEGE FOREST VIEW AVE HUDSON HEIGHTS QUE	B A 4	ORHONLU CENOIZ 3575 HUTCHISON ST MTL SULTAN AHMED AMIRAL TAPDIL SOKAK 18 2 ISTANBUL TURKEY	PARTIAL
OLIVE DAVID MICHAEL 98 SOMERSET RD SAIE D URREE QUE	2 TCHRS 1	ORLEANS POBEE ROBERT T P O BOX 25 CAPE COAST GHANA	M A 1
OLIVER DONALD RAYMOND 3661 LORNE CRES MTL 714 3RD ST SASKATOON SASK	PH D 4	ORNSTEIN JACK 6550 MOUNTAIN SIGHT MONTREAL QUE	B ENG CH 3 RE 8 6803
OLIVER HOWARD KEITH 528 PRINCE ARTHUR ST APT 10 MTL 4570 WILSON AVE MONTREAL QUE	B SC 4	O ROURKE JOHN FRANCIS L 3640 HUTCHISON ST APT 7 MONTREAL QUE	B COM 3 VI 5 8379
OLIVER JOHN ARTHUR 4868 COTE DES NEIGES MONTREAL QUE	MED DIPL 1 RE 3 3279	ORPHANOS DEMETRIUS 3473 SMUTER ST MONTREAL QUE	PH D 2 VI 2 1057
OLIVER JOSEPH JACOB 4801 GRAND BLVD MONTREAL QUE	B A 3 HU 8 4061	ORR BRUCE CHARLES 5344 REIMS ST MONTREAL QUE	B ENG 1 DU 7 2885
OLIZAR JOHN 3442 PRUD HOMME AVE MONTREAL QUE	B ENG COM 5	ORR WENDY DIANE 110 BEACONSFIELD BLVD BEACONSFIELD QUE	B A 1 OX 5 4217
OLMSTEAD JOAN R ROYAL VICTORIA COLLEGE GRYSON QUE	B ED 4 VI 2 0526	ORR MARGARET N STEWART HALL 3431 KING EDWARD AVE MONTREAL QUE	B ED P ED 2
OLTHOF THEODORUS M A BOX 19 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	PH D 1	ORR PATRICIA MARY 3431 KING EDWARD AVE MONTREAL QUE	B ED P ED 4 HU 1 2246
OLTON JR ROBERT MATTHEW 1880 8111 ROSE HILL RD RICHMOND VIRGINIA USA	M SC 1 VI 2 9451	ORTH FRANK GEORGE DOUGLAS HALL RIVER RD NORWICH VERMONT USA	B A 1 VI 4 0877
OMAN LINDA V LAIRD HALL 5727 WESTMINSTER AVE COTE ST LUC QUE	B ED 2	ORZECK ALBERT 2495 VAN HORNE AVE MONTREAL QUE	B SC 3 RE 3 3306
OMENUKOR EMMAUEL N 3524 SMUTER ST APT 7 MONTREAL QUE	B COM 2 VI 4 0084	OSBORNE EDWARD GORDON 9 2ND AVE DORVAL QUE	B ENG EL 4 ME 1 5334
		OSBORNE FRED 811 LAWSON ST SUDBURY ONT	M A 1

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OSBORNE MARY SOPHIA ROYAL VICTORIA COLLEGE 74 PAISLEY ST QUELPH ONT	B A 1 VI 2 0829	OUTHOUSE LAURENCE EDMUND 1585 MCORECOR ST MTL BOX 55 PORT HAWKESBURY N S	M A C 1 WE 3 0803
OSBORNE PAUL WRAY 9 2ND AVE DORVAL QUE	B SC 4 ME 1 5334	OWEN CYNTHIA VERONICA 3558 LORNE AVE APT 5 MONTREAL QUE	B A 2
OSBORNE WILLIAM B 74 PAISLEY ST QUELPH ONT	B A 1	OWEN DAVID WILLIAM WILSON HALL P O BOX 5042 CRISTOBAL C Z PANAMA	B SC 1
O SNEA THOMAS JOSEPH 3633 OXENDEN AVE MTL 407 4TH ST EAST SASKATOON SASK	B ENG CIV 5 AV 8 6896	OWEN JANE CHRISTY 973 DUNSMUIR RD TOWN OF MT ROYAL QUE	B A 2 RE 7 2350
OSMO PATRICK ADEKUNLE 3535 SHUTER ST MONTREAL QUE	B ENG CIV 4 VI 4 0841	OWENS FRANCES E 3680 ONTARIO AVE MTL R R 1 KAMLOOPS B C	GRAD DIP VI 5 0484
OSLER MARY F ROYAL VICTORIA COLLEGE 307 RUSSELL HILL RD TORONTO 7 ONT	B A 2 VI 2 0113	OWENS PATRICIA SCOTT 637 GROSVENOR AVE WESTMOUNT QUE	B SC 3 HU 8 8672
OSLER ROBERT MICHAEL 3489 PEEL ST MTL COMO QUE	B A 2 VI 9 9928	OWUSE THEOPHILUS DZAM 3650 STE FAMILIE APT 4 TONGOR PEKI GHANA	B ENG MCH 4 VI 2 7497
OSTOVAR KUROSH 83 ORCHARD ST VILLE LASALLE QUE	B SC AGR 1 DO 6 0047	OYER CHARLES WALKER 1592 PINE AVE W MTL WOLCOTT N Y USA	D D S 3 WE 2 1864
OSTER NIGEL ALEXANDER 3563 UNIVERSITY ST MONTREAL QUE	B A 3 VI 4 6751	OZBURN GEORGE W BOX 23 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	M SC 1
O SULLIVAN ROBERT DAVID 3373 DUPUIS AVE MONTREAL 29 QUE	B ENG MCH 4 RE 8 4622	OZERNITEKY SIDNEY 5851 TERREBONNE AVE MONTREAL QUE	MD CM 2 HU 1 3223
OTODO GUY EDOE 3516 LORNE AVE MTL C O CHIEF W E OTODO P O BOX 5 UGHELLI NIGERIA	B ENG CIV 5 VI 9 6774		
OTSON REIN 1505 DECELLES ST APT 12 VILLE ST LAURENT QUE	B SC 3 RI 7 3216		
OTTLEY IVOR ALBERT M P 3473 UNIVERSITY ST MONTREAL QUE	PARTIAL VI 9 1791	PAASUKE REIN TOIVO 327 WESTMINSTER AVE N MONTREAL WEST QUE	B SC 3 HU 8 7313
OTTON AINLEY PENELOPE J ROYAL VICTORIA COLLEGE 173 KINGSMOUNT BLVD SUDBURY ONT	B ARCH 2	PAASUKE TOOMAS 327 WESTMINSTER AVE N MONTREAL WEST QUE	B SC 1 HU 8 7313
OUELLET NOEL ELZEAR 6655 TERREBONNE AVE APT 19 MTL 224 CEDRES AVE DOLBEAU QUE	B ENG CIV 4 HU 8 0432	PABLO GIL E 7745 SHERBROOKE ST E MTL 310 NORTH APPLE ST DUNMORE PENN USA	M SC 1 CL 5 2481
OUIMET MARIE SUZANNI 1810 LAJOIE AVE MONTREAL QUE	PARTIAL RE 8 4052	PABLO MARILYN VIRGINIA 7745 SHERBROOKE ST E MTL 310 NORTH APPLE ST DUNMORE PENN USA	B SC 1 CL 5 2481
OULTON JOHN HENRY BRITTAIN HALL 133 ELGIN GRANBY QUE	M A 1	PACEY PHILIP DESMOND DOUGLAS HALL 249 WINSLOW ST FREDERICTON N B	B SC 1
OULTON ROBERT FRANK DOUGLAS HALL LOWLANDS CHORLEYWOOD RD RICKMANSWORTH HERTS ENGLAND	B SC 2 VI 4 0977	PACKARD MICHAEL JOHN C 3463 PEEL ST MTL HACKFORD HALL REEPHAM NORFOLK ENGLAND	B A 3 VI 9 0802
OUPCHER JOSIANE CHARLOTTE 21 LEGAULT ST STE ANNE DE BELLEVUE QUE 4610 GRAND BLVD APT 5 MONTREAL QUE	8 TCHRS	PACKER STEVEN ROBERT 3568 VENDOME AVE MONTREAL QUE	B COM 4 HU 4 4749
OUTERBRIDGE EUGENE W 3660 LORNE CRES APT 24 BLINK BONNIE SHELLY BAY BERMUDA	MD CM 1	PADRO JACOB 390 OUTREMONT AVE APT 14 MONTREAL QUE	B SC 2 CR 7 9532
OUTERBRIDGE JOHN S 3660 LORNE CRES APT 24 GREENWATER SHELLY BAY BERMUDA	MD CM 2	PAGE STANLEY S 1565 MCOREGOR ST MTL 495 LINCOLN ST S SALEM OREGON USA	MD CM 1
		PAJARI GEORGE EDWARD 8525 DARLING APT 5 MONTREAL QUE	M SC 2 LA 6 4868

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PALACIO LUIS 5956 TERREBONNE AVE 88 NO 310 APT 102 VEDADO HABANA CUBA	B ENG 1 MU 9 1685	PAPACONSTANTINOU JOHN BOX 217 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	B SC AGR 4
PALAMEDES BASILE 2080 CITY COUNCILLORS ST 119 PERCY ST OTTAWA ONT	M A 2 VI 2 4526	PAPAUERLIS LUDWICK L 5309 CHURCHILL ST MONTREAL 36 QUE	B ENG CIV 3 RA 0 0464
PALK ELIZABETH M 4780 VICTORIA AVE MONTREAL QUE	M S W 2 MU 6 7080	PAPEZIK VLADIMIR STEPHEN 3570 DUROCHER ST APT 9 MONTREAL QUE	PH D 4
PALMASON FLORENCE DIANE ROYAL VICTORIA COLLEGE 1985 MANOVER RD MONTREAL 16 QUE	M A 1 VI 2 0829	PAPOUSEK FRANZ JOHN 156 MONTERREY LAKESIDE QUE	B ENG 2 OX 5 6384
PALMER CHARLES B 30 4TH AVE LAVAL WEST QUE	MUS B 4 NA 7 2582	PAPP CLARA EDITH 2100 MARLOWE AVE MONTREAL QUE	MED DIPL 1 MU 4 3571
PALMER FREDERICK EARL 3660 PEEL ST APT 6 MTL 9 BROWSE AVE TORONTO 7 ONT	B ARCH 3 VI 5 7730	PAPP OTTO AKOS 2100 MARLOWE AVE MONTREAL QUE	MED DIPL 3 MU 4 3571
PALMER JAMES TALMADE 1441 DRUMMOND ST MTL 1012 FRONTENAC AVE CALGARY ALBERTA	B A 1	PAQUETTE MARCEL EMILE 280 BLOOMFIELD AVE MONTREAL QUE	B C L 4 CR 1 1010
PALMERTON CALSON D 3651 OKENDEN AVE MTL 510 NO SWEETZER AVE LA 48 CALIF USA	MD CM 2	PAQUIN J GUY ST ANDRE CO KAMOURASKA QUE	B ENG CIV 5
PALVOLGYI ROMANA 2895 MAPLEWOOD AVE APT 2 MONTREAL QUE	M ENG 1 RE 7 3170	PARADISE VALDEMAR FORREST 3430 DRUMMOND ST MTL 19 CONCORD RD BILERICA MASS U S A	B A 1
PALYI LASZLO 1839 LINCOLN AVE APT 6A MONTREAL QUE	B A 3	PARANCHYCH WILLIAM 2166 ST LUKE ST APT 607 MONTREAL QUE	PH D 3
PANCHAM SONILAL R 1001 SHERBROOKE ST W MTL BORDE HARVE VILLAGE BONTE ESTATE SAN FERNANDO TRINIDAD W I	B SC 4 VI 4 2122	PARCHMENT DONALD A MACDONALD COLLEGE PYFFE B PEN P O JAMAICA B W I	B SC AGR 4
PANCINK CHARLES 100 ST JAMES ST VILLE ST PIERRE QUE	B ENG CIV 4 MU 6 0083	PARENT RICHARD GERARD 548 SHERBROOKE ST W MTL LILLE MAINE USA	B ENG CH 5 VI 4 0551
PANCINK GEORGE BRITAIN HALL C O WM PANCINK RR 1 SOUTH MOUNTAIN ONT	B SC AGR 1	PARILLO JOHN J 456 PINE AVE MTL 739 MASON ST SCHENECTADY B N Y USA	MD CM 2 VI 9 0284
PANESAR MANJIT KAUR 1265 CAROL CRFS ST MARTIN QUE	B A 1 MU 1 3590	PARK LEAH DOROTHY 9 WOOD CRES SEACONSFIELD QUE	GRAD DIP 1 OX 5 2859
PANG PETER C Y 3512 SHUTER AVE MTL 529 CANTON RD 2ND FL HONG KONG	B ENG CIV 4	PARK SAMUEL GRAHAM 3506 UNIVERSITY ST MTL 87 WARREN RD WANSTEAD LONDON E 11 ENGLAND	B SC 1
PANIAGUA JOSE GUILLERMO 5322 BRODEUR ST MTL COURT OF APPEALS SAN JUAN DE LA MAGUANA DOMINICAN REPUBLIC	B ENG 2 MU 9 8527	PARKINS GAIL K 465 GROSVENOR AVE WESTMOUNT QUE	B SC N 3 WE 5 6812
PANIGO IPPAZIO MACDONALD COLLEGE 19 PHILLIPS AVE BENNEVILLE QUE	B SC AGR 1	PARKINSON CAROL JOAN 435 BRIXTON AVE ST LAMBERT QUE	B SC 4 OR 1 6693
PANKHURST RUTH FRANCES 2005 MANSFIELD ST APT 3 MONTREAL QUE	MD CM 4 VI 5 2048	PARKINSON DAVID ELTON MACDONALD COLLEGE WATERVILLE QUE	B SC AGR 1
PANTEL ROSALYN 4963 ISABELLA MONTREAL QUE	B A 1 RE 8 9666	PARRISH ROBERT MERLE 406 PINE AVE W APT 11 TURNERVILLE ONT	MED DIPL 4 VI 9 5911
PANTON VERMA W ROYAL VICTORIA COLLEGE CLAREMONT P O ST ANN JAMAICA W I	B ARCH 2 VI 2 0625	PARROTT KENNETH BRUCE MONTREAL GENERAL HOSP 252 PRINCE ALBERT AVE WESTMOUNT QUE	MED DIPL 1
		PARRY JOHN T 539 PINE AVE MONTREAL QUE	PARTIAL
		PARSONS DOUGLAS ASHTON E 3424 DRUMMOND ST APT 5 86 COOKSHIRE ST EAST ANGUSS QUE	B A 2 VI 4 0659

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NAME ADDRESS	COURSE & YEAR TEL. NO.	NAME ADDRESS	COURSE & YEAR TEL. NO.
PARSONS HERBERT AYLMEY 12 AMESBURY AVE APT 576 ISLAND BROOK QUE	B ENG EL 4 WE 2 2079	PAUL RONALD LARRY 3610 DUROCHER ST APT 12 223 N 30TH ST HARRISBURG PAXTANG PENNA USA	MD CM 1 VI 4 7620
PARSONS RICHARD DERRY 4860 QUEEN MARY RD APT 9 MONTREAL QUE	B ENG CIV 4 RE 1 1393	PAULSON IRENE 3261 FOREST HILL AVE APT 50 MONTREAL QUE	M S W 1 RE 3 0289
PARSONS STATIA FRANCES 96 STAFFORD RD BAIE D URFEE QUE	B TCHRS 1	PAVITT BARRY 3506 UNIVERSITY ST MTL 16 MEADOW GARDENS EDDWARE MIDDLESEX ENGLAND	B A 4 VI 4 0624
PASCAL DOUGLAS LEONARD 4352 KINGSTON AVE MONTREAL QUE	B COM 1 HU 6 3304	PANER RONALD 782 DE L EPEE AVE MONTREAL QUE	B ENG COM 5 CR 9 6870
PASCAL ELIZABETH I ROYAL VICTORIA COLLEGE 16 ARTHUR ST BRANTFORD ONT	B COM 2 VI 2 0334	PAYAN PHYLLIS ANN M 1009 SHERBROOKE ST W 773 HEMLOCK RD OTTAWA ONT	B SC P OT 2
PASCAL HARRIET B 723 UPPER BELMONT AVE WESTMOUNT QUE	B A 1 HU 6 3254	PAYETTE GILLES JOSEPH 4500 CIRCLE RD MONTREAL 6 QUE	B ENG EL 4 RE 8 1790
PASKAL TOM STANLEY 2330 PATON ST VILLE ST LAURENT QUE	B SC 1 RI 4 4745	PAYNE ELEANOR MAY 89 FINCHLEY RD HAMPSTEAD QUE	B SC 1 HU 6 5713
PASKAL VIVIAN PEARL 2330 PATON ST VILLE ST LAURENT QUE	B SC 2 RI 4 4745	PAYNE FRANCES 5415 VICTORIA AVE MONTREAL QUE	B A 1 RE 9 3455
PATERSON MARGERY GORDON 4311 MONTROSE AVE WESTMOUNT QUE	B A 3 WE 3 6985	PAYNE JOHN HOWARD 1395 BELANDER ST APT 1 MONTREAL QUE	B COM 3 CR 2 4648
PATERSON RICHARD D 148 SUNNYSIDE AVE LAKESIDE QUE	B ENG 2 OX 5 4804	PEAK KEITH ELLIOT BRITTAIN HALL 47 WARREN ST LENNOXVILLE QUE	B ED 1
PATRICK LINDA MARY 419 VICTORIA AVE WESTMOUNT QUE	B TCHRS 1 WE 7 4458	PEARCE BRIAN CHRISTOPHER 190 DUFFERIN RD HAMPSTEAD QUE	B A 3
PATRICK WILLIAM JAMES 2234 SOUVENIR ST MTL WHITEWOOD SASK	B ENG EL 3 WE 3 4076	PEARCE BRYAN WILLIAM 3473 UNIVERSITY ST MTL 1379 W 55TH AVE VANCOUVER 14 B C	B A 3 VI 9 1791
PATTEN ROBERT L DOUGLAS HALL 104 HOWELL ST S CHILLIWACK B C	MD CM 2 VI 5 7849	PEARCE GEORGE ROLAND 3473 UNIVERSITY ST MTL 1379 WEST 55TH AVE VANCOUVER 14 B C	B D 3 VI 9 1791
PATTERSON GIBSON M MACDONALD COLLEGE R R 4 OTTAWA ONT	B SC AGR 4	PEARCE JAMES M 3444 RUSHBROOKE ST VERDUN QUE	B ENG 2
PATTERSON PATRICIA J 3462 WALKLEY AVE MONTREAL 28 QUE	B ED 4	PEARL REEVIN 6585 VICTORIA AVE APT 15 MONTREAL QUE	B A 1 RE 7 2144
PATTERSON ROSE C 91 DE VERE GARDENS TORONTO 12 ONT	B ENG EL 3	PEARLMAN RONALD E 3506 UNIVERSITY ST MTL 3824 10TH ST S W CALGARY ALTA	B SC 3 VI 4 0624
PATTISON ADELA HAWTHORNE 3426 HUTCHISON ST APT 5 BOX 45 ROSEMERE QUE	B C L 3 VI 9 1446	PEARMUND ROBERT MARSDEN DOUGLAS HALL WHITE CROFT WOLSET CLOSE KINGSTON HILL SURREY ENGLAND	B COM 4 VI 4 7288
PATTISON EDWARD F 4353 CIRCLE RD PIERREFONDS QUE	B SC 2	PECK MARTHA LOUISE 3713 STE FAMILLE ST 400 OLNEY ST BEEKONK MASS USA	B L S 1 VI 9 9915
PATTON ANITA L STEWART HALL 104 CHESTNUT DR BAIE D URFEE QUE	B SC H EC 3	PEDERSEN EIGIL DALSGAARD 179 BEDBROOK AVE MONTREAL 28 QUE	M A 2 HU 1 5934
PATTON JOAN ISABEL 104 CHESTNUT DR BAIE D URFEE QUE	B SC AGR 1	PEDERSON ERIK C B 3609 UNIVERSITY ST MONTREAL QUE	PH D 5 AV 8 6307
PATTON ROBERT EDWARD 485 SHERBROOKE ST W MTL 671 WESTCHESTER DR BAIE D URFEE QUE	D D S 2 VI 5 0734	PEEL ROJEMARY E 3637 ST FAMILLE ST MTL 865 WEST WALNUT LANE PHILA 44 PA USA	MD CM 1 VI 5 3545
PAUL RICHARD PAUL COLLINS 6413 MAZARIN ST MONTREAL 20 QUE	B ENG 2 PO 6 6579		

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PEENE DICK DOUGLAS HALL 205 FOREST HILL RD TORONTO ONT	B ENG 2	PEREL STANLEY 5712 WILDERTON AVE MONTREAL QUE	B ENG 2 RE 8 8286
PEPPER GORDON WOLFE 4708 MACKENZIE ST MONTREAL 26 QUE	B SC 2 RE 7 9523	PERELMAN FRANK HENRY D 661 QUERBES AVE APT 5 OUTREMONT QUE	B SC 3 CR 6 2230
PEGG PETER J 134A LAKESHORE RD LAKEIDE QUE	B SC AGR 2 OX 5 3809	PERELMUTTER LEWIS LARRY 2452 BEDFORD RD MONTREAL QUE	PH D 3
PEI DAVID CHUNG TEE 1441 DRUMMOND ST MTL 10 WISTORIA RD YAU YET CHUEN KOWLOON HONG KONG	PH D 4	PEREY DANIEL Y E 92 FRECHETTE AVE LAVAL WEST QUE	MD CM 2 NA 7 4320
PEKKNIC KATHLEEN ANN 528 PRINCE ARTHUR ST APT 3 MTL 208 EAST 83RD ST NEW YORK 28 N Y USA	GRAD DIP 1	PEREY EDMOND ANDRE D 92 FRECHETTE AVE LAVAL WEST QUE	B ENG CIV 3 NA 7 4320
PELL JERRY 4521 VAN HORNE AVE MONTREAL 26 QUE	B SC 2 RE 7 4017	PEREZ ENRIQUE 3095 BEDFORD RD APT 2 AVE HIPOOROMO 8 11 ZONA 8 QUATEMALA CITY QUATEMALA	MED DIPL 3 RE 8 2457
PELLETIER CAMILE 1005 SHERBROOKE ST W MTL ST LOUIS DU HA MA CO TEMISCOUATA QUE	B ENG 2 VI 4 0811	PERKINS JOHN ALDEN C 5785 COTE ST LUC HAMPSTEAD QUE	B COM 1 HU 8 5562
PENG JOHN FAI SUEN 3517 HUTCHISON ST MTL 3900 GREYSTONE AVE APT 64F BROX 63 NEW YORK USA	B ARCH 4 VI 9 0109	PERKINS WILLIAM A 3581 UNIVERSITY ST MTL 12 GORE ST W PERTH ONT	B COM 2 VI 9 1368
PENACCHIOTTI RENATA ROYAL VICTORIA COLLEGE AV URBANETA 52 CARACAS VENEZUELA	B SC 2 VI 2 0495	PERLIN BLUMA 6325 MACDONALD AVE MONTREAL QUE	B SC 2 RE 1 0939
PENNER ARNOLD DEREK EWAN 4650 EARNSCLIFFE AVE MONTREAL QUE	B A 3 HU 1 4368	PERLMAN HAROLD MACDONALD COLLEGE 4053 MARCIL AVE MONTREAL QUE	B SC AGR 1
PENNER DAVID WILSON HALL 3905 17TH ST S W CALGARY ALTA	B SC 2 VI 4 0624	PERLMUTTER JACOB 5824 CLANRANALD AVE MONTREAL QUE	B ENG 2 RE 7 0244
PENNER JEAN P 4650 EARNSCLIFFE AVE MONTREAL QUE	MUS B 2 HU 1 4368	PERODEAU PETER G 201 BROCK AVE N MONTREAL WEST QUE	B ENG PHY 3
PENNINGTON ANETTE 3496 GREY AVE MONTREAL QUE	B A 2 HU 1 7825	PEROT PHANOR L 470 VILLENEUVE ST W MTL 1405 PARK AVE MONROE LA USA	PH D 2 CR 9 2149
PEPPER EARLAND HAROLD BRITAIN HALL R R 3 SINGEE ONT	P E DIP 1	PERREN SUSAN QUIRK ROYAL VICTORIA COLLEGE 11 ROSEMARY LANE TORONTO 10 ONT	B SC 2 VI 8 0858
PEPPER LOUISE E MACDONALD COLLEGE 1640 CHAMPION ST VILLE ST LAURENT QUE	B SC H EC 1	PERRON JEAN MARIE BOX 32 MACDONALD COLLEGE BOX 302 CHAPAIS ABITIBI E QUE	M SC 1
PERCY MICHAEL JOSEPH MACDONALD COLLEGE 72A ARIAPITA AVE PORT OF SPAIN TRINIDAD W I	B SC AGR 3	PERRON PIERRE A 10790 ST CHARLES AVE MONTREAL 12 QUE	MUS B 4 DU 8 5862
PEREDERY WALTER VOLODYMYR 5494 CHARLEMAGNE AVE MONTREAL 36 QUE	B ENG EL 2 RA 8 2815	PERSOON ALFRED V 3500 SHUTER ST APT 5 MONTREAL QUE	MD CM 2 VI 9 7417
PEREIRA NEIL FRANCIS 771 1ST AVE POINTE AUX TREMBLES QUE 39 FRIENDSHIP EAST COAST DEMERANG BRITISH GUIANA S A	B ENG 1 MI 5 1819	PERZOW SYDNEY MICHEL 5216 CLANRANALD AVE MONTREAL QUE	B SC 2 HU 4 8026
PEREL JERRY 4650 ST KEVIN MTL 400 TILLSBURY AVE OTTAWA ONT	B SC 1 RE 3 4682	PESNER MICHAEL STEPHEN 4721 DORNAL AVE MONTREAL QUE	B COM 1 RE 8 7237
PEREL MORTON LEONARD 145 BROOKFIELD AVE TOWN OF MT ROYAL QUE	D D S 1 RE 8 3492	PETER ERICH MAX 1533 MCGREGOR AVE APT 101 MONTREAL QUE	M S W 1 WE 2 7968
		PETER WILLIAM JOHN DOUGLAS HALL 43 JENNINGS AVE SOUTHAMPTON N Y USA	MD CM 3
		PETERFY GEORGE 4455 DUPUIS AVE APT 20 MONTREAL QUE	MED DIPL 2 RE 3 4557

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NAME ADDRESS	COURSE & YEAR TEL. NO.	NAME ADDRESS	COURSE & YEAR TEL. NO.
PETERS CHARLES W 35 SARAT RD WESTMOUNT QUE	B A 3 WE 5 5648	PHILLIPS NORMA JOAN ROYAL VICTORIA COLLEGE 227 GAY LUSSAC ST ARVIDA QUE	B COM 1 VI 2 0829
PETERS EDWARD ALAN 3478 MCTAVISH ST MONTREAL QUE	B COM 4 VI 2 7412	PHILLIPS PATRICIA DUFF 3480 ONTARIO AVE MTL 197 FOURTH AVE OTTAWA ONT	B SC P OT 2 VI 2 0044
PETERS GERALD ROY 1565 MCGREGOR ST MTL 290 VALDEZ AVE SAN FRANCISCO 12 CALIF USA	MD CM 1	PHILLIPS ROGER WILLIAM F 690 SHERBROOKE ST W MTL 227 GAY LUSSAC ST ARVIDA QUE	B SC 4 VI 9 1550
PETERS FENELUPE MARGURITE 11 NAZELWOOD DR MTL 32 BALACLAVA ST AMHERSTBURG ONT	MUS B 2 RE 8 7729	PHILLIPS THOMAS GORDON D 357 MELVILLE AVE MONTREAL QUE	B A 1 WE 5 2640
PETERSON ERIK BARRY 544 LANSLOWNE AVE WESTMOUNT QUE	B ENG 1 WE 5 9881	PHILLIPS WILLIAM EMERSON BRITAIN HALL 24 PICTOU RD TRURO NS	B SC AGR 3
PETERSON REIN 4947 EARNSCLIFFE AVE MONTREAL 29 QUE	B ENG CIV 5 HU 6 6151	PHILLIPS JUDITH ARNA 3600 UNIVERSITY ST MTL 10514 125TH ST EDMONTON ALTA	B W 1
PETERSON RICHARD 626 VICTORIA AVE ST LAMBERT QUE	B ENG MCH 4	PHILPOTT FRANK SUMNER 40 EDGEHILL RD WESTMOUNT QUE	B ENG EL 4 HU 8 8010
PETERSON RICHARD SPENCER 481 PRINCE ARTHUR ST W 700 DESTA ST HAMILTON MONTANA USA	M SC 1	PHILPOTS ANTHONY ROBERT 4 BRUNET AVE DORVAL QUE	M SC 2 ME 1 1125
PETIT GAETAN MONT ST HILAIRE QUE	B SC AGR 1	PHILPOTS GEOFFREY C 4 BRUNET AVE DORVAL QUE	B A 3 ME 1 1125
PETIT HUGUES DANIEL 2079 KIMBERLEY AVE MONTREAL QUE	B ENG MET 5 VI 4 6485	PHILPOTS JOHN ALDWIN 4 BRUNET AVE DORVAL QUE	M SC 1 ME 1 1125
PETRAS GEORGE 7734 CENTRAL ST VILLE LABALLE QUE	PARTIAL	PICKEL GEORGE HAROLD 4833 GROSVENOR AVE MONTREAL QUE	B C L 4 HU 9 5122
PETRO VICTOR ANDREW 4362 DUPUIS AVE APT 23 SIMMIE SASK	D D S 1 RE 9 7306	PICKERSOILL DAVID N W 3851 UNIVERSITY ST MTL 1527 PRINCESS ST REGINA SASK	B ENG CIV 4 VI 5 0934
PETRYK ALLEN ALEXANDER 2652 SPRINGLAND ST MONTREAL 20 QUE	B SC 2 PO 8 5082	PICKETT GEORGE EASTMAN 3851 UNIVERSITY ST MTL 452 REBECCA ST MORGANTOWN W VA USA	MD CM 3
PEVEHOUSE BYRON C 3801 UNIVERSITY ST MTL 1930 22ND AVE SAN FRANCISCO CALIF USA	M SC 2 VI 2 1251	PICKUP FELICITY J ROYAL VICTORIA COLLEGE 1110 BELMONT AVE SILLERY QUE	B A 2 VI 2 0147
PFAEFFLIN GOETZ EBERHARD 1615 LINCOLN AVE MTL OTTINGEN SUD GEORG ROTT STR 1 GERMANY	B ENG MCH 4 WE 5 7922	PIERCE FREDERICK A BRITAIN HALL SHEDIAC RD R R 1 LEWISVILLE NS	B SC AGR 4
PFEFER IRVING MARVIN 4393 MARCIL AVE MONTREAL QUE	B ENG CH 3 HU 6 3550	PIERCE LINDA MARGARET 5688 QUEEN MARY RD HAMPSHIRE QUE	B SC P OT 3
PFEIFFER MANFRED 764 DAVAR AVE MONTREAL QUE	B COM 1 CR 9 9591	PIERER VON ESCH ALPHONSE 3435 PRUD HOMME AVE APT 26 MONTREAL 28 QUE	MD CM 1 HU 6 2052
PHelps GERALD R 211 INGLEWOOD AVE PTE CLAIRE QUE	B ENG 2 OX 7 2037	PIH GEORGE PIH CHI WAH 16 TRUI MAN ST 3RD FL HONG KONG	B SC 2
PHILIPP ANNE WHITLOCK W 1540 SOMMERHILL AVE APT 108 MONTREAL QUE	B A 4 WE 7 7115	PIKE DAVID ALAN WINGEATE 3660 HUTCHISON APT 6 MTL LINCOMBE DRIVE HOTEL TORQUAY ENGLAND	B A 4 VI 9 4487
PHILLIPS CHARLES ORMOND D BOX 22 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	PH D 2	PIKE JOHN G 5A ST JEAN BAPTISTE STE ANNE DE BELLEVUE QUE	PH D 4
PHILLIPS DAVID FRANK 525 SCOFIELD RD ROSELAND ONT	B SC AGR 2	PIKKEALU TIIT 4940 MACDONALD AVE MONTREAL 29 QUE	B ENG 2 HU 8 0485
PHILLIPS GORDON K 275 BEVERLEY AVE TOWN OF MT ROYAL QUE	MD CM 2 RE 8 0572		
PHILLIPS IVAN EDWARD 48 BELVEDERE PL WESTMOUNT QUE	B C L 4 WE 3 6996		

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PILAR VLAD RUDOLF 3653 UNIVERSITY ST MTL 331 CLARKE AVE APT 43 WESTMOUNT QUE	B A 4	PLAW ANITA A 320 WILLINGDON AVE KINGSTON ONT	B A 1
PILBITCH EIMON ANDREW L 488 ARGYLE AVE WSMT LITTLEHILL MANOR PULBOROUGH SUSSEX ENGLAND	B A 4 WE 5 3120	PLAXTON MARTHA ANN 555 SHERBROOKE ST W MTL 1270 MINAKI RD PORT CREDIT ONT	B A 3 VI 2 0477
PILKINGTON EUNICE ISABEL ROYAL VICTORIA COLLEGE STRETTON HOUSE LOWER STRETTON CHEESHIRE VIA WARRINGTON ENGLAND	B A 2 VI 2 0327	PLEET ISRAEL LEONARD 4361 LINTON AVE APT 7 MONTREAL QUE	B A 2 RE 9 0261
PILON JEAN G 130 BLAINVILLE W STE THERESE CO TERRESOINNE QUE	M SC 2	PLOTNICK STANLEY 5851 DOLBEAU MONTREAL QUE	B COM 2 RE 7 8651
PILON JOSEPH I R G 328 STE MARIE ST JEAN QUE	M SC 2	FLOWMAN ROBERT KEITH 3471 PEEL ST MTL 38 IMPERIAL AVE OTTAWA ONT	B ENG CIV 5 VI 9 0133
PINCHUK MARVIN 4912 LACOMBE AVE MONTREAL QUE	B SC 3 RE 8 4381	PLUMMER MADGE EILEEN ROYAL VICTORIA COLLEGE 4 MALVERN AVE KINGSTON JAMAICA W I	B ARCH 2
PINCHUK MURIEL 5265 BYRON AVE MONTREAL QUE	B A 1 HU 6 4759	PLUMPTON ARTHUR JAMES B 107 FLORIDA DR SEACONSFIELD WEST QUE	B ENG 3 OX 5 9838
PINGOTT ROBERT SPENCER 3660 LORNE CRES APT 23 MONTREAL QUE	MD CM 4 VI 5 9818	PLUSE WERNER HERMAN 4897 ROSEDALE AVE MONTREAL 29 QUE	B ENG CIV 4 HU 6 7801
PINCUS NORMAN N 4612 VEZINA AVE MONTREAL QUE	B SC 2 RE 8 0617	POCHAIIVSKY ZOYA 4202 ST URSAIN ST MONTREAL QUE	DIP ASSOC 1 VI 5 6005
PINEL JOHN F 318 BALLANTYNE AVE N MONTREAL WEST QUE	B ENG 2 HU 6 4223	POCOCK DOROTHY M E 3497 HUTCHISON MTL 633 EDISON AVE OTTAWA ONT	B SC 4 VI 2 0497
PINNEO JEANNE MARIE 3454 STANLEY ST APT 12 MONTREAL QUE	M A 1 AV 8 5909	POCOCK JENNIFER MARGARET ROYAL VICTORIA COLLEGE LES NIEMES ST PETER JERSEY CHANNEL ISLANDS	B A 3 VI 2 0180
PINNEO LAWRENCE ROBERT 3454 STANLEY ST APT 12 MONTREAL QUE	PH D 3 AV 8 5909	POPELIS SORYL 2110 BARCLAY AVE MONTREAL QUE	B A 3 RE 8 8915
PINSKY CARL 658 QUERBES AVE OUTREMONT QUE	PH D 4 CR 1 8333	POQUE THOMAS R MACDONALD COLLEGE 942 RIVERSIDE DR TECUMSEH ONT	B SC AGR 4
PINSKY ETHEL 624 STE GERMAIN AVE OUTREMONT QUE	2 TCHRS RE 7 9163	POHL HANS EDGAR 1378 GREENE AVE MONTREAL QUE	B A 2 WE 2 1545
PINSKY JOEL ARNOLD 4910 MAPLEWOOD AVE APT 9 MONTREAL QUE	B CL 3 RE 3 7988	POHORECKY NATALIA VERA 1355 DORCHESTER ST W MTL 329 POLSON AVE WINNIPEG 4 MAN	B L S 1
PINSKY LEONARD 5131 BARCLAY AVE APT 8 MONTREAL QUE	MD CM 4 RE 3 9376	POHR SYLVIA 6537 COOLBROOK AVE MONTREAL QUE	B SC 1 RE 3 9614
PITSLADO MARJORIE JEAN 617 BELMONT AVE WESTMOUNT QUE	B A 1 HU 6 0817	POLAND GEORGE WILLIAM 44 ACADEMY RD APT 11 WESTMOUNT QUE	B SC 1 WE 2 7638
PITOMER ROBIN BROOKS 85 CHURCH HILL MONTREAL 6 QUE	B A 1 WE 5 3728	POLAND JOHN GUNLIFFE 44 ACADEMY RD APT 11 WESTMOUNT QUE	B SC 4 WE 2 7638
PITSAS CONSTANTINE 3241 FORREST HILL MTL 10 HAWK ST SCHENECTADY N Y USA	D D S 4 RE 3 9126	POLAND THOMAS REID 3702 MOUSSEAU ST MONTREAL 5 QUE	D D S 1 CL 9 1814
PIVER IRENE 5081 BARCLAY AVE MONTREAL QUE	B A 3 RE 3 6400	POLANSKY BARBARA SHEILA 4890 MACKENZIE ST MONTREAL QUE	B A 1 RE 8 2680
PIZZO ALBERT GENE 5045 LASALLE APT 10 VERDUN 5230 PIZZO RANCH RD LA CANADA CALIF USA	MD CM 3 PO 6 4093	POLANSKY HARRY MOSES 2160 NOEL ST VILLE ST LAURENT QUE	B SC 4 RI 7 8383
PLANT RAFE JAMES 3024 BRESLAY RD MONTREAL 6 QUE	B CL 3 WE 5 4570	POLATSEK SOL J 5275 WALKLEY AVE APT 107 MONTREAL QUE	B ENG CIV 4 HU 9 6930

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POLAWSKI ALEXANDER JOSEPH 3630 D'ROCHER ST APT 44 70 OTTAWA ST N HAMILTON ONT	D D B 4 VI 4 5369	POFFO MARTIN JOSEPH 4790 PLAMONDON MTL 15 CHESTNUT ST RHINEREC N Y USA	MD CM 3 RE 7 8131
POLGER ABRAHAM 5342 CUMBERLAND AVE MONTREAL QUE	B C L 3 HU 8 7971	PORRITT WILLIAM RICHARD 3478 MCTAVISH ST MTL 25 DUNLOE RD TORONTO ONT	B COM 2 VI 2 7412
POLKKI LEO HENRY 9146 GIRONARD AVE MONTREAL 28 QUE	B ENG 2 HU 9 1552	PORCH STANLEY B MACDONALD COLLEGE 44 OXFORD RD BAIE D'URFEE QUE	B SC AGR 4
POLLACK AARON 1827 NORTH AVE MONTREAL QUE	B C L 1 RE 8 1070	PORTEOUS ERIC ROBERT B 4627 KINGSTON AVE MONTREAL 26 QUE	B ENG EL 4 HU 1 6732
POLLARD SAMUEL LISTER 10961 ESPLANADE AVE MONTREAL 12 QUE	PH D 4 DU 8 4252	PORTEOUS KENNETH CLARK 3468 DRUMMOND ST APT 503 MONTREAL QUE	B ENG 1 VI 9 6645
POLLOCK CATHERINE J STEWART HALL 7680 SECOND AVE VILLE ST MICHEL QUE	2 TCHRS 2	PORTER JAMES G 403 GREENOCK AVE TOWN OF MT ROYAL QUE	B ENG 1 RE 8 5011
POLLOCK DAVID CARLETON I 3473 UNIVERSITY ST MTL R 3 LACHUTE QUE	B ENG 2	PORTER SUSAN GLORIA MACDONALD COLLEGE 73 ELIZABETH AVE GRANDY QUE	2 TCHRS 1
POLLOCK ROBERT DAVID 1665 MONTCLAIR AVE ST BRUNO QUE	B ENG 1 OL 3 6305	PORTFORS JOAN ELIZABETH MACDONALD COLLEGE 716 ALGONQUIN AVE MONTREAL 16 QUE	B ED 1
POLLOCK SHEILAM JOY 5139 WESTBURY AVE MONTREAL QUE	B A 3 RE 3 6963	PORTNER ELEANOR 5531 PARKVIEW CRES COTE ST LUC QUE	B SC P OT 1 HU 4 2552
POLLOWY GEORGE 3500 STE FAMILLE ST MTL 109 LOTTRIDGE ST HAMILTON ONT	B ARCH 8	PORTNER OLIVER T 5392 PRINCE OF WALES AVE MONTREAL QUE	B SC 2 HU 9 3101
POLO CORRALES RAFAEL F 2100 MARLOWE AVE MONTREAL QUE	MED DIPL 3	PORTNER PEER MICHAEL 5392 PRINCE OF WALES AVE MONTREAL QUE	B SC 3 HU 9 3101
POMERANZ BRUCE HERBERT 5476 BOURRET ST MONTREAL QUE	MD CM 3	PORTNER RUTH LEE 3501 SHUTER ST APT 4 MONTREAL QUE	B A 3 AV 8 1986
PONT IRIS 23 ST GEORGE STE ANNE DE BELLEVUE QUE 4849 PLAMONDON AVE MONTREAL QUE	3 TCHRS	PORTNOY JOSEPH 4081 ESPLANADE AVE MONTREAL QUE	B SC 2 AV 8 1768
POPE AUDREY J STEWART HALL 40 50TH AVE LACHINE QUE	B SC H EC 5	POSLINS DONALD 3660 PEEL ST APT 6 MONTREAL QUE	M A 1 VI 5 7730
POPE CAROL ANN STEWART HALL P O BOX 853 RICHMOND QUE	B SC H EC 1	POSNER MURRAY NEIL 5771 RAND AVE COTE ST LUC QUE	B ENG 1 HU 8 4583
POPE CHARLES FRANCIS BRITTAIN HALL BOX 853 RICHMOND QUE	B SC AGR 1	PASPIBIL JANE B MACDONALD COLLEGE 1051 DES CHENES THREE RIVERS QUE	2 TCHRS 1
POPE DOUGLAS GEORGE 4088 KINGSTON AVE MONTREAL QUE	B ARCH 4 HU 1 8739	POSTELNIK GERALD WILLIAM 12 MARIE ANNE ST W MONTREAL QUE	B C L 1 AV 8 5364
POPE JOHN OSBORNE W 52 FINCHLEY RD HAMPSTEAD QUE	B A 2 HU 6 7808	POTHIER MICHEL CLAUDE 2580 GIRONARD ST ST HYACINTHE QUE	B C L 4
POPIERAITIS ANTHONY B 2427 SPRINGLAND AVE MONTREAL QUE	MD CM 3 PO 8 9847	POTTEL JUDITH RHONA 4977 ISABELLA AVE MONTREAL QUE	2 TCHRS RE 8 5569
POPKIN DAVID R 23 ELMWOOD AVE SENNEVILLE QUE	B SC AGR 3	POTTEL LINDA HELEN 545 ROSLYN AVE WESTMOUNT QUE	B A 1 WE 7 2480
POPKIN JOHN OLIVER 23 ELMWOOD AVE SENNEVILLE QUE	B SC AGR 2	POTTER CYRUS AUGUSTINE 410 SHERBROOKE ST W APT 5 MONTREAL QUE	B ENG MCH 5 VI 5 7038
POPOVICI ADRIAN A B D 751 KENASTON MONTREAL QUE	B C L 1 RE 3 0609	POTTERAY RONALD JOHN 3900 BOUCHETTE ST APT 1 MONTREAL QUE	MD CM 1
		POULIN SANDRA JOAN 5051 GLANANALD AVE APT 208 MONTREAL QUE	B A 2 HU 1 3586

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POULIOT GASTON 5164 LA FABAQUE ST VINCENT DE PAUL CO LAVAL QUE	PH D 3 NO 1 7069	PRETTY PETER BOYER MACDONALD COLLEGE 600 ROCKLAND AVE OUTREMONT QUE	B SC AGR 2
POUND JUDITH ELIZABETH 4854 VICTORIA AVE MONTREAL 29 QUE	B SC 2 MU 4 3270	PREVOST CHARLES 5626 WOODBURY AVE MONTREAL QUE	M SC 1 RE 7 1387
POUND RICHARD W 529 KENASTON AVE MONTREAL QUE	B COM 2 RE 3 6283	PRICE EVERETT MELBOURNE 3506 UNIVERSITY ST MTL 82 BROOK ST AYLMER QUE	B SC 2 VI 4 0624
POWELL ANN MURRAY 38 CHURCH HILL WESTMOUNT QUE	M S W 2 WE 3 5984	PRICE IAN EDWARD G DOUGLAS HALL 2099 MAYNE AVE VICTORIA B C	B COM 1
POWELL ANNE MURRAY 1112 ELGIN TERR APT 201 410 CLOVERDALE RD ROCKCLIFFE PK OTTAWA ONT	PARTIAL	PRIDE CAROLINE E 5 WINDERMERE AVE DORVAL QUE	B SC H EC 3 ME 1 8254
POWELL PATRICIA I 340 44TH AVE LACHINE QUE	B ED 3 ME 7 4147	PRIETO PORTER LUIS 3484 PEEL ST MTL CALLE 9B 520 MIRAMAR LA HABANA CUBA	B SC 2 VI 4 5922
POWELL ROBERT CHESTER S 300 SHERBROOKE ST W MTL 1925 MOZLEY PL S W ATLANTA 14 GA USA	M A 1 VI 2 0590	PRIMAVESI CHRISTIAN MARK 3550 RIDGEWOOD AVE MONTREAL 36 QUE	B ENG 1 RE 3 9090
POWELL WILLIAM GORDON BOX 91 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	B D 1	PRINCE ELTON ANTHONY 2416 PARK ROW W MTL 74 PIETERMAAI CURACAO N A	D D S 3 MU 6 1841
POWER PETER C 3478 HUTCHISON ST APT 2 THE TAN MO LAPWORTH WARWICKSHIRE ENGLAND	B COM 2 VI 4 9817	PRINDEVILLE SUSAN ROYAL VICTORIA COLLEGE 10200 S LEAVITT CHICAGO 43 ILL USA	B A 2 VI 2 0495
POWERS ROBERT JAMES BRITTAIN HALL 29 CEDAR CRES R C A F ST HUBERT QUE	B SC AGR 2	PRINCI MARI 755 HOWARD AVE MONTREAL 15 QUE	B SC POT 2 CR 1 8924
POY NEVILLE GEORGE 3647 UNIVERSITY ST MTL 190 SOMERSET ST W OTTAWA ONT	MD CM 4 VI 9 2806	PRINSKY ROBERT DAVID 707 GROSVENOR AVE WESTMOUNT QUE	B SC 1 MU 1 3528
POZNANSKY MARILYN 4943 VICTORIA AVE MONTREAL QUE	B A 1 MU 6 1723	PRIOR GRANT WILLIAM 360 NOTRE DAME AVE ST LAMBERT QUE	B ENG 1 OR 1 9538
PRAT OLIVIER CHARLES M H 815 BROOKFIELD AVE TOWN OF MT ROYAL QUE	B C L 3 RE 7 9081	PRISKO LILLI HEDDI 1555 SUMMERHILL AVE APT 415 MONTREAL QUE	PH D 2 WE 2 8492
PRATIGNO KARMYUNI 3559 UNIVERSITY ST APT 3 MONTREAL QUE	B SC 4	PRIVES JOE MARK 5611 CAMDEN PL MONTREAL QUE	B SC 2 RE 8 7816
PRATT ROBERT ALAN 166 LAKESHORE DR DORVAL QUE	B SC 4 ME 1 3763	PRIMINSKI HENRY JOHN 1581 MCGREGOR ST MTL 1925 NO AYL BLVD FT LAUDERDALE FLA USA	L L M 1
PREFONTAINE JOSEPH M R 5573 BASILE PATENAUDE PL LISIEUX SASK	B ENG MCH 5 LA 4 1093	PROOS LENO 6667 TRANS ISLAND AVE MONTREAL 29 QUE	B ENG 1 RE 3 1833
PRESCOTT BLAKE DANIELS 5125 BOURRET AVE APT 2 36 RIDGE RD E LOHNEMEADOW MASS USA	MD CM 3 RE 3 0687	PROSTERMAN LEONARD LOUIS 555 TAIT VILLE ST LAURENT QUE	D D S 4
PRESCOTT JAMES WHITTICK 2788 MISSION BLVD SAN DIEGO 8 CALIF USA	PH D 2	PROULX ANDRE 1656 CHAMPIGNY MTL 203 MONTFORT OTTAWA 2 ONT	B ENG MCH 5 PO 8 7854
FRESMAN NORMAN EZRA P 5665 MACDONALD AVE MONTREAL QUE	B ARCH 4 RE 9 4644	PROULX PETER 6633 BORDEAUX ST MONTREAL QUE	M SC 1 RA 7 9489
PRETTY JOHN NEIL 600 ROCKLAND AVE OUTREMONT QUE	B ENG CIV 5 CR 7 1736	PROVENCHER GASTON 708 WESTCHESTER DR BAIE D'URFEE QUE	B ENG EL 3
PRETTY LOUIS COOPER 600 ROCKLAND AVE OUTREMONT QUE	B ARCH 5 CR 7 1736	PRYDE DOROTHY G STEWART HALL 62 MENLEY AVE TOWN OF MT ROYAL QUE	B ED PED 2
		PRYDLAKIVSKA IRENE ANNE 3558 DEZERY ST MONTREAL 4 QUE	B A 3 LA 5 3455

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NAME ADDRESS	COURSE & YEAR TEL. NO.	NAME ADDRESS	COURSE & YEAR TEL. NO.
RAFF MARTIN CHARLES 622 MURRAY HILL AVE WESTMOUNT QUE	MD CM 1 HU 4 4871	RANDOLPH BRENDA ANNE 4960 DORNAL AVE MONTREAL QUE	B A 2 RE 7 8220
RAFMAN NANCY REGINA 320 DUFFERIN RD HAMPSTEAD QUE	B A 1 HU 8 5033	RANGONGO MABELA JOB PERCY 2610 FRONTENAC ST APT 1 PIUS XII COLLEGE ROMA MISSION BASUTOLAND S AFRICA	M SC 1
RAFMAN SANDRA 320 DUFFERIN RD HAMPSTEAD QUE	B A 2 HU 8 5033	RANKIN PAUL S 3325 DECELLES PL APT 204 MONTREAL QUE	D D S 3 RE 7 8919
RAGATZ ROBERT EDWARD 3440 RIDGEWOOD APT 48 527 WENHAM RD PASADENA CALIF USA	MD CM 4 RE 1 2022	RANSON TACIE NAIRN ROYAL VICTORIA COLLEGE MARTIN RD RYE NEW YORK USA	B SC P OT 1 VI 2 0829
RAIMI CYNTHIA VERONA 3516 LORNE AVE APT 3 MONTREAL QUE	B SC P OT 2 VI 9 6479	RAO CHERUKURI KANAKA D RADIATION LAB MCILL 1983 ST GERMAIN ST VILLE ST LAURENT QUE	PH D 2 RI 7 2738
RAIMI RASHIDI AYINDE 3516 LORNE AVE MTL 3 ONIKEPO ST LAGOS NIGERIA	B ENG MCH 5 VI 9 6774	RAO VENKATESWARA G GEOL SURVEY OF INDIA 27 CHOWINGHEE CALCUTTA 13 INDIA	PARTIAL
RAINEY CHRISTOPHER A 3560 DUROCHER ST MONTREAL QUE	B A 2 AV 8 1473	RAPHAEL LLOYD FRANCIS BOX 142 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	M A 2
RAINFORTH JAMES R MACDONALD COLLEGE BERWICK N S	M SC 2	RAPOPORT OLGA 1452 BISHOP ST APT 22A MONTREAL QUE	B SC 3 VI 9 6827
RAKSHPAL RAM BRITTAH HALL DEPT OF ZOOLOGY LUCKNOW UNIVERSITY LUCKNOW INDIA	PH D 2	RAPOPORT WESLEY 5583 GLENCREST AVE COTE ST LUC QUE	MD CM 2 HU 6 1459
RAM ABRAHAM 496 BLOOMFIELD AVE MONTREAL QUE	PARTIAL CR 4 8700	RAPP NORMAN HIRSCH 3540 NORTHCLIFFE MONTREAL QUE	B SC 1 HU 4 5041
RAM JERRY 2825 WILLOWDALE AVE MONTREAL QUE	PARTIAL RE 8 1223	RAPPAPORT LEBIA 4 ST ETIENNE ST MTL 5260 DALOU MONTREAL QUE	3 TCHRS
RAMAN ANNE ELIZABETH 5110 SHERBROOKE ST W APT 15 MONTREAL QUE	PH D 3	RASHID SYED AKHTAR 4610 PLAMENDON APT 3 CHANDKOTHI HAZARIBAGH BIHAR INDIA	MED DIPL 3 RE 6 4076
RAMANAUSKAS VICTOR M 485 SHERBROOKE ST W MTL 101 WATSON AVE OAKVILLE ONT	B SC 2 VI 5 0740	RASPA ANTHONY 4179 MARCIL AVE MONTREAL 28 QUE	M A 1 HU 4 6508
RAMBAULT PAUL CHRISTOPHER 3436 DUROCHER ST APT 12 BOX 191 WELLAND ONT	B SC 2 VI 9 9790	RATTEE DAVID ARTHUR 24 RUSSELL AVE TOWN OF MT ROYAL QUE	B ENG 1 RE 3 3003
RAMSAY GREGOR VAN WYCH 4546 WILSON AVE MONTREAL QUE	B ENG 1 HU 4 9100	RATTNER ELLEN GORGIA 3245 LINTON AVE MONTREAL 26 QUE	B A 2 RE 7 6886
RAMSAY ROBERT A 8106 KILDARE RD COTE ST LUC QUE	MD CM 2	RAUCH SOL 5921 CLARK ST MONTREAL QUE	B ENG PHY 3 CR 4 7648
RAMSEYER JUDITH 456 PINE AVE APT 37 MTL 2 PUTNAM HILL GREENWICH CONN USA	MD CM 2 RE 4 8382	RAUD HEINZ RANDAR 5395 WESTMORE AVE MONTREAL QUE	B SC 1 HU 9 8772
RAND SHERRILL MARIE 83 ELLERDALE RD HAMPSTEAD QUE	B A 2 HU 4 0284	RAUDSEPP JOHN 3435 KINGSTON AVE MONTREAL QUE	B ENG CIV 3 HU 1 1716
RAND WILLIAM A 23 ELLERDALE RD HAMPSTEAD QUE	B COM 1 HU 4 0284	RAUF RAHEEMA DOUGLAS HALL C O DR M A RAUF EMBASSY OF INDIA BRUSSELS BELGIUM	B ARCH 2
RANDAL LINDA KATHLEEN 109 CLAUDE AVE DORVAL QUE	B A 3 ME 1 3729	RAWAS LILIAN 578 ROSELYN AVE WESTMOUNT QUE	B SC 1 HU 8 5006
RANDALL SYLVIA MARQUERITE 2868 HILL PARK CIRCLE MONTREAL QUE	B A 4 WE 5 8070	RAWAS SOL MONY 856 PLYMOUTH AVE TOWN OF MT ROYAL QUE	B COM 1 RE 3 6138
RANDELL ROBERT L BOX 140 MACDONALD COLLEGE P O STE ANNE DE BELLEVUE QUE	M SC 2	RAWIN SOLOMON JOHN 765 LANARK CRES TOWN OF MT ROYAL QUE	PH D 1 RE 3 8234

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NAME ADDRESS	COURSE & YEAR TEL. NO.	NAME ADDRESS	COURSE & YEAR TEL. NO.
PAWLINS PEARL MARJORIE 1505 DECARIE BLVD VILLE ST LAURENT QUE	B L S 1 RI 4 2116	REDMOND JOHN EDGAR P O BOX 178 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	M SC 1
RAYCHAUDHURI SUNILKUMAR 6 MYSORE RD CALCUTTA 26 INDIA	PH D 5	REDPATH THOMAS BOX 8 CAUGHNAWAGA QUE	B D 3 ME 7 6621
RAYE JEAN STAFFORD ROYAL VICTORIA COLLEGE 21 GENEVA RD MELROSE 76 MASS USA	B A 3 VI 2 0334	REECE HAROLD EVELYN 3592 UNIVERSITY ST MTL THREE HOUSES ST PHILIP BARBADOS W I	B ENG COM 5 VI 9 0328
RAYMOND GARY CLAYTON 140 THORNCREST AVE DORVAL QUE	B SC AGR 1 ME 1 0280	REED HEATHER AMY 4483 WESTERN AVE WESTMOUNT QUE	B SC 2 WE 5 7967
RAYMOND JANET ANNE MACDONALD COLLEGE 225 FRASER ST QUEBEC CITY QUE	2 TCHRS 1	REED JOHN G 631 COTE ST ANTOINE RD WESTMOUNT 6 QUE	B ENG 1 HU 4 4778
RAYMOND MARIE JOSE 3241 THE BOULEVARD WESTMOUNT QUE	B ARCH 2 WE 2 0171	REED RICHARD REA 1845 ST LUC ST APT 21 MONTREAL QUE	D D B 1
RAYMOND PIERRE 3940 COTE DES NEIGES RD MONTREAL QUE	B C L 3	REED RONALD CUBSON 3660 DUROCHER MTL 16002 41TH AVE N E SEATTLE 55 WASH USA	MD CM 2 AV 8 5933
RAYNAULT PAUL MARCEL A G 6563 LOUIS HEMON ST MONTREAL QUE	B SC 3 RA 7 5515	REEKIE CHARLES I M BRITTAIN HALL MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	B SC AGR 3
RAYNER JOHN NORMAN 3515A LORNE AVE MONTREAL 18 QUE	M SC 2 VI 5 0036	REES ELIHU P 3530 DUROCHER ST APT 24 MONTREAL QUE	MD CM 1 AV 8 3491
RAYSIDE BARBARA JEAN 468 STRATHCONA AVE MONTREAL 6 QUE	B A 4 WE 7 2404	REES PETER WILLIAM WILSON HALL 141 PRINCE GEORGE AVE SOUTHGATE LONDON N 14 ENGLAND	B A 3 VI 4 0624
RAYSIDE JOHN STUART 321 KINDERSLEY AVE MONTREAL 16 QUE	B ENG 1 RE 8 6601	REEVE CHARLES E 3647 DUROCHER ST APT 9 3201 27TH ST VERNON B C	MD CM 2 VI 9 8436
RAYUDU GARIMELLA V S 3615 UNIVERSITY ST MTL GANGALAKURRU VIA AMBAUPE TA AMALPURAM TQ E G DT ANDHRA INDIA	PH D 3 VI 4 0888	REFETOFF SAMUEL 3105 VAN HORNE AVE APT 5 MONTREAL QUE	MD CM 1 RE 3 2968
RAZAC RAFFIEUDEEN 3436 DUROCHER ST MTL 48 AMUCURAO RD ST JAMES P O 5 TRINIDAD W I	B SC 2 VI 5 2616	REGENSTREIF AVRUM 4637A BOUCHETTE ST MONTREAL 26 QUE	B ARCH 6 RE 1 0989
READ ROBIN ELIZABETH 35 HIGHLAND DR TRURO N S	B SC H EC 2	REGENSTREIF RENEE SANDRA MACDONALD COLLEGE 2682 SOISSONS AVE MONTREAL QUE	3 TCHRS RE 7 4816
RECTER DIRK HENDRIK BRITTAIN HALL TYHOFLBOAN 41 ALMELO THE NETHERLANDS	B SC AGR 3	REICH HARRIET 729 WILDER AVE OUTREMONT QUE	B SC 3 CR 1 9341
RECTOR FREDERK GILBERT 3574 SHUTER ST MTL 2140 PACIFIC AVE SAN FRANCISCO CALIF USA	MD CM 1	REICH JUDY IDA 4300 WESTERN AVE MONTREAL QUE	B A 2 WE 4 1648
REDDON JOHN 446 BEDARD ST LABALLE QUE 955 MAITLAND ST LONDON ONT	D D B 3 DO 6 3773	REICH THEODORE 1001 MT ROYAL BLVD W MONTREAL QUE	MD CM 1 CR 2 3942
REDFERN JAMES M BRITTAIN HALL 78 PURLEY DOWNS RD PURLEY SURREY ENGLAND	B SC AGR 3	REICHSTEIN HYMAN 675 CAVEN CIRCLE VILLE ST LAURENT QUE	B ENG EL 3 RI 4 6686
REDMAN HARMAN BARROW WILSON HALL CENTRAL ROMANA LA ROMANA DOMINICAN REPUBLIC	B ENG CM 3	REID ALISON M MACDONALD COLLEGE HUNTINGDON QUE	B SC H EC 3
REDMAN WINSTON ANTHONY 3506 UNIVERSITY ST MTL CENTRAL ROMANA LA ROMANA DOMINICAN REPUBLIC	B COM 2 VI 4 0624	REID BERTIE S 3575 JEANNE MANCE ST APT 5 MTL KINGSTON JAMAICA W I	B ENG 2 AV 8 3429
		REID CHARLOTTE LILLIAN 5190 BEACONSFIELD AVE 539 ROOSEVELT AVE OTTAWA ONT	B L S 1 HU 1 5977
		REID DENIS F 574 COTE ST ANTOINE RD WESTMOUNT QUE	B SC 2 HU 1 4617

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REID EDITH ANNE 4673 EARNCLIFFE AVE MONTREAL 29 QUE	B SC 1 MU 3 3595	REUSING DIANE POTTER 3521 SHUTER ST MTL 502 GROSVENER AVE MONTREAL QUE	M B W 2 WE 5 6005
REID MARY EMILY LAIRD HALL 6 PARK PL APT 2 WESTMOUNT QUE	2 TCHRS	REVELLE ROSS WILLIAM MACDONALD COLLEGE 1360 QUERTIN ST VILLE ST LAURENT QUE	B SC AGR 1
REID NANCY J ROYAL VICTORIA COLLEGE 31 WOLSELEY S MONTREAL 16 QUE	B ED P ED 3 VI 2 0327	REYNOLDS ALAN JOHN DOUGLAS HALL 67 GRANVILLE RD HAMPSTEAD QUE	B ENG 1
REID STANLEY J MACDONALD COLLEGE HUNTINGDON QUE	B SC AGR 4	REYNOLDS DONALD HARVEY MACDONALD COLLEGE QUYON QUE	B SC AGR 2
REID WALTER ROBERT 6893 10TH AVE MONTREAL 36 QUE	B ENG 1 RA 2 9429	RHODES CRISPIN DAVID 6415 VICTORIA AVE APT 97 MONTREAL QUE	B SC 3
REILLY HERBERT DAVID 210 CHESTER AVE MONTREAL 16 QUE	B ENG CIV 3 RE 8 3473	RHODY JEAN LOUISE 1201 DORCHESTER ST W MTL ELMWOOD ONT	PARTIAL UN 6 0654
REILLY WILLIAM JAMES 3778 WESTMOUNT BLVD WESTMOUNT QUE	B A 4 MU 4 3197	RICE FRANKLYN EDWARD 324 NO 4TH ST NILES MICH USA	MD CM 1
REIM WILLIAM MARTIN 3790 MACKENZIE ST MONTREAL 26 QUE	B A 1 RE 7 7549	RICH LINDA CAROLINE MACDONALD COLLEGE 5605 WESTMINSTER AVE MONTREAL QUE	3 TCHRS
REIMER ARNOLD S 4815 QUEEN MARY RD MONTREAL QUE	B COM 1 RE 9 5632	RICHARD JEAN W 1158 HOPE AVE APT 4 MONTREAL QUE	B SC 1 WE 7 9066
REINBLATT LILLIAN 4520 ROSEDALE AVE MONTREAL QUE	B CL 2 MU 4 1486	RICHARDE LEONARD 3000 GOYER ST MONTREAL QUE	M B W 1 RE 9 6414
REINBLATT SHEILA 4 ST JOSEPH ST STE ANNE DE BELLEVUE QUE 5245 WAVERLEY ST MONTREAL QUE	3 TCHRS	RICHARDS MICHAEL LAURENCE 101 PERCIVAL AVE MONTREAL WEST QUE	B A 4 MU 8 5975
REINER THOMAS 2801 MAPLEWOOD AVE APT 18 MONTREAL QUE	B ENG MCH 4 RE 9 2902	RICHARDS THOMAS FRANKLIN 1441 DRUMMOND ST MTL 324 ROSS AVE BARNIA ONT	B ARCH 5
REINHORN REBECCA E 3891 VAN HORNE AVE MONTREAL QUE	3 TCHRS RE 3 7265	RICHARDSON EILEEN F 153 45TH AVE APT 2 LACHINE QUE	3 TCHRS ME 4 1637
RENAUD JOSEPH PAUL GILLES 4080 COOL ST VERDUN 37 CAMELIN BLVD MULL QUE	B ENG CIV 5 PO 7 2005	RICHARDSON JOHN B 495 PRINCE ARTHUR ST W APT 27 MTL 462 KING KINGSTON ONT	MD CM 2 VI 5 7393
RENNALLS JOAN ISABELLE ROYAL VICTORIA COLLEGE SUNNY SIDE MAY PEN JAMAICA W I	B SC 1 VI 2 0597	RICHARDSON JOHN FRASER 5430 CLANRANALD AVE MONTREAL 29 QUE	3 TCHRS MU 4 5840
RENNERT ERIC 25 HEATH RD HAMPSTEAD QUE	MD CM 1 MU 1 7607	RICHARDSON KEITH ST CLAIR 3637 OXENDEN AVE MONTREAL QUE	M SC 1 VI 9 0504
RENNERT MICHAEL D 38 CRESSY RD HAMPSTEAD QUE	D B S 1 MU 9 6659	RICHARDSON PATRICIA M 3484 DUROCHER ST APT 209 704 CENTRAL AVE HAMILTON ONT	PH D 4 AV 8 9415
RENTON ROBERT IAN 243A FIRST AVE VILLE LASALLE QUE	B ENG MCH 5 DO 6 7646	RICHARDSON ROBERT ALAN 244 ELM AVE MTL 45 HOLBORNE AVE TORONTO 6 ONT	M A 1 WE 2 3430
RENWICK ROGER DE VEER 3485 MCTAVISH ST MTL C O ROYAL BANK OF CANADA ST GEORGES GRENADA W I	B COM 2 VI 9 0141	RICHER JOSEPH NORMAND 760 VALIQUETTE VERDUN QUE	B COM 1 PO 6 6512
REPLOBLE ANNE 3511 LORNE AVE MTL 4110 SOUTH LOOKOUT LITTLE ROCK ARKANSAS USA	M A 1 VI 4 0012	RICHER SIMON 5275 BELLECHASE APT 2 MONTREAL 36 QUE	MED DIPL 3 CL 6 2876
RETAILLACK ELIZABETH J 630 UPPER WOODLANDS CHATEAUGUAY CO QUE	B A 1 OX 2 4900	RICHER STEPHEN IRWIN 4589 HAMPTON AVE MONTREAL QUE	B A 2 MU 6 0962
		RICHLER RHODA FAY STEWART HALL 4040 LA PELTRIE ST MONTREAL QUE	3 TCHRS

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RICHTER IRIS LIPFELD 5055 COTE ST LUC APT 47 MONTREAL QUE	M SC 1 HU 9 6950	RITCHIE DAVID NORMAN 110 IRVINE AVE WSMT 8 BECTON GROVE GRASSDALE LIVERPOOL 19 ENGLAND	B A 2 WE 2 9053
RICHTER MAXWELL 4564 OLD ORCHARD AVE MONTREAL QUE	MD CM 1 HU 4 5463	RITCHIE DOUGLAS MALCOLM 3434 MCTAVISH ST MTL COTE ST CHARLES RD HUDSON HTS QUE	B SC 2 VI 2 4492
RICHSTONE ESTA TOBA 4665 CIRCLE RD MONTREAL QUE	B A 4 HU 4 0846	RITCHIE ELIZABETH STEWART ROYAL VICTORIA COLLEGE 495 LANSDOWNE RD ROCKCLIFFE OTTAWA ONT	B A 2
RICHSTONE MARTIN ELLIS 4585 DUPUIS AVE APT 10 MONTREAL QUE	B SC 1 RE 9 0173	RITCHIE ESTELLE 4893 FULTON ST MONTREAL QUE	B A 2 RE 8 3387
RICKARDS ANTHONY ERIC 65 CAMERON AVE HUDSON QUE	M A 1	RITCHOT CLAUDE BOX 163 APT A10 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	M SC 1
RIDDELL ALISTAIR ANDREW 3508 UNIVERSITY ST MTL 85 ST ANDREWS RD BAIE D'URFEE QUE	B D 1	RIVARD ROBERT CARL 4705 WEST BROADWAY AVE MONTREAL 28 QUE	B SC 1 HU 1 9613
RIDDELL LORRAINE W ROYAL VICTORIA COLLEGE 157 ST GERMAIN AVE TORONTO ONT	B ED 4 VI 2 0147	RIVERO ALBERTO JOSE D 4175 WESTERN AVE WENT C O DR ALBERTO RIVERO APARTADO 5124 ESTE D F CARACAS VENEZUELA	B SC 2 WE 5 2160
RIDDELL WAYNE KERR 57 MONTE ST MARIE STE ANNE DE BELLEVUE QUE 635 MAIN ST LACHUTE QUE	H S D DIP	ROBB JUDITH GRACE 32 BORDEN AVE WESTMOUNT QUE	B A 3 HU 6 7457
RIEPPFEL JEAN MARC ALAIN WILSON HALL 882 RUA ALMT ALEXANDRINO RIO DE JANEIRO BRASIL	B ENG COM 5 VI 4 0611	ROBB MARGARET 1420 TOWERS ST APT 318 MONTREAL QUE	M A 1
RIEKMAN GEORGE ALLAN 366 SHERBROOKE ST W APT 12 MTL BOX 8 ROSTERN SASK	D D S 4 VI 4 9810	ROBERGE JACQUES BENOIT P 5565 DUNHOM MTL PHILIPPSBURG QUE	B ENG EL 3 RE 9 1596
RIGBY PETER J WILSON HALL THE GABLES CECIL AVE LIGHTCLIFFE HALIFAX YORKSHIRE ENGLAND	B COM 1	ROBERT DE MASSEY PHILIPPE 709 UPPER ROSLYN WESTMOUNT QUE	B CL 1 HU 4 1558
RIRDON WILSON OLIVER 3660 LORNE CRES APT 4 1633 LINDEN AVE OWENSBORO KY USA	MD CM 4	ROBERTS JANE EVELYN 36 CEDAR AVE PTE CLAIRE QUE	2 TCHRS 1 OX 5 4075
RIGSBY GREGORY URBAN 3524 LORNE AVE APT 6 MONTREAL QUE	B A 4	ROBERTS JOHN JOSEPH 3543 HUTCHISON ST MTL 430 PELHAM ST METHUEN MASS USA	B SC 2
RIKER LOIS CATHERINE 293 VICTORIA DR BAIE D'URFEE QUE	2 TCHRS 1	ROBERTS JOHN S 1720 DORCHESTER ST W APT 14 MONTREAL QUE	D D S 2 WE 3 4093
RILEY ELKADA LAIRD HALL 34 JACKSON RD WINDWARD RD KINGSTON 2 JAMAICA W I	B SC MIE 2	ROBERTS KENNETH DAVID 104 COLUMBIA AVE WESTMOUNT QUE	PH D 4 WE 3 2319
RIMDIN DAVID LAWRENCE 5620 RANDALL AVE COTE ST LUC QUE	M SC 1 HU 1 0870	ROBERTS LINDSAY T 1040 BROWN BLVD VERDUN 19 QUE	B A 1 PO 8 8262
RIORDON ERIC CARL 39 ARLINGTON AVE WESTMOUNT QUE	B SC 2 WE 7 3317	ROBERTSON DOUGLAS C 427 WOOD AVE WESTMOUNT QUE	B CL 1 WE 2 7934
RIORDON PETER ROBERT 3506 UNIVERSITY ST MTL R R 1 DUNHAM QUE	B SC 3 VI 5 8645	ROBERTSON DUNCAN CHARLES 3605 MARLOWE AVE MONTREAL 28 QUE	B COM 4 HU 9 3340
RISEBOROUGH BRIAN EDWARD 82 ROUGE MONT ST LONGUEUIL ANNEX QUE	B ENG MCH 4 WE 4 7162	ROBERTSON GORDON WALLACE 3508 UNIVERSITY ST MTL COCKSHIRE ST EAST ANGLS QUE	B ENG CM 5
RITCHIE ALAN 807 WILDER AVE OUTRE MONT QUE	B SC 1 CR 7 5156	ROBERTSON IAN 365 REDFERN AVE WESTMOUNT QUE	B A 2 WE 5 2087
		ROBERTSON IAN BRUCE 604 CLARK AVE WESTMOUNT QUE	B A 3 WE 7 8006
		ROBERTSON JAMES COLLETT 4541 OXFORD AVE MONTREAL QUE	B SC 2 HU 6 2655

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ROBERTSON LYNN TINGLEY 1009 SHERBROOKE ST W MTL 19 GREENWOOD AVE HALIFAX N S	B SC P OT 2	ROBINSON SHARON R 4616 HINGSTON AVE MONTREAL QUE	B A 1 HU 4 2749
ROBERTSON MARGARET 12000 BALK AVE MONTREAL 12 QUE	B A 1 DA 2 5993	ROBITAILLE GUY ERNEST 331 KINDERLEY AVE TOWN OF MT ROYAL QUE	B C L 1 RE 8 0320
ROBERTSON MARGARET M 2162 SHERBROOKE ST W APT 19 MTL 508 WESTMINSTER AVE OTTAWA ONT	B SC 4 WE 3 4930	ROBOTHAM HENRY ALVEREZ 3437 HUTCHISON ST MTL HALF WAY TREE JAMAICA W I	B COM 4 VI 4 1343
ROBERTSON MARION GIBBONS 427 WOOD AVE WESTMOUNT QUE	B A 1 WE 2 7934	ROBSON HUGH GISLI 116 CORNWALL AVE MONTREAL 16 QUE	MD CM 4 RE 7 9090
ROBERTSON NORMA LILIAN APT B 5 MACDONALD COLLEGE NEW CARLISLE QUE	3 TCHRS	ROBSON JACK DOUGLAS 475 PINE AVE W MTL 633 2ND ST S KENORA ONT	B ED P ED 3 VI 4 4270
ROBERTSON STEWART JAMES MACDONALD COLLEGE R R 3 LACHUTE QUE	AGR DIP 3	ROCHE ALBERT JOHN 1947 ST LUKE ST MTL 4 COBB LANE CORNER BROOK Nfld	MD CM 1 WE 2 7905
ROBERTSON TAUM MAXWELL 32 BRUNET AVE PTE CLAIRE QUE	B SC 4	ROCHESTER DAINE ROSS 288 GROSVENOR AVE MTL 529 RICHMOND RD OTTAWA ONT	B COM 4 WE 4 1106
ROBILLARD JOSEPH J L 8270 LAJEUNESSE APT 6 MONTREAL QUE	B ARCH 2 CR 4 2274	ROCHEVILLE JOSEPH EMILE C 3405 PATRICIA AVE APT 4 346 ST VIATEUR JOLIETTE QUE	B ENG 2 HU 6 4546
ROBILLARD MARIE HENRIETTE 31 BELVEDERE CIRCLE WESTMOUNT QUE	B A 2 WE 5 6187	ROCKINGHAM JOHN ROBERT M 366 KITCHENER AVE WESTMOUNT QUE	B ENG CIV 4 WE 7 3803
ROBINS MARJORIE EDITH LAIRD HALL 270 QUEBEC ST SHERBROOKE QUE	2 TCHRS 2	RODGER DAVID SEYMOUR 3482 MCTAVISH ST MTL 221 SOUTH ST COWANSVILLE QUE	B SC 4 VI 4 1273
ROBINSON ALAN REGINALD 625 CARDINAL ST VILLE ST LAURENT QUE	B ENG 2 RI 7 2017	RODICK GERALD SAMUEL 832 DUNLOP AVE OUTREMONT QUE	B SC 1 RE 3 3838
ROBINSON ALLAN 6440 DECARIE BLVD APT 201 MONTREAL QUE	B ENG CH 3 RE 3 3744	RODRIGUES ALBERT EDWARD 3660 D'URCHER ST APT 9 ST PAUL S HOSP ANNEX E CAUSEWAY BAY HONG KONG	B SC 2
ROBINSON ALLAN HOBEN 66 THURLOW RD MONTREAL 29 QUE	B ENG MCH 3 HU 4 5361	RODRIGUEZ ADELA ELIZABETH ROYAL VICTORIA COLLEGE 100 PARK RD ROCKCLIFFE PARK OTTAWA ONT	B A 3 VI 2 0265
ROBINSON ALLEN TEASDALE 3533 JEANNE MANCE ST APT 6 MTL DUDLEY HILL PAQUET WEST BERMUDA	B SC 1 VI 5 4458	RODRIGUEZ JACINTO 1385 JEAN TALON E MTL SAN PEDRO 2 LAS PALMAS S L SPAIN	M SC 1 CR 4 7701
ROBINSON DAVID 4912 CIRCLE RD MONTREAL QUE	B C L 1 HU 4 7638	RODRIGUEZ ROBERT PERCY 3241 FOREST HILL APT 41 C O WARDENS QUARTERS COUVA TRINIDAD S W I	D D S 4 RE 3 9126
ROBINSON DONALD ROSS BRITAIN HALL LACOLLE QUE	B SC AGR 1	ROGERS ALFRED HAROLD D 731 ROCKLAND AVE OUTREMONT QUE	B SC 2 CR 2 4904
ROBINSON ERIC WILFRID 23 LEONAUT ST APT 4 STE ANNE DE BELLEVUE QUE 55 KILGREGGAN CRES SCARBOROUGH ONT	M A 2	ROGERS DAVID HANDLEY 3473 UNIVERSITY ST MTL HEMMINGFORD QUE	B D 3 VI 9 1791
ROBINSON GEOFFREY LYLE DOUGLAS HALL 248 ROSSINI BLVD WINDSOR ONT	B COM 2 VI 5 0934	ROGERS ELEANOR KATHLEEN 99 CURE DAVID DORION QUE	GRAD QUAL 1
ROBINSON JENNIFER MAUD 624 MURRAY HILL WESTMOUNT QUE	B SC M 1 HU 4 4863	ROGERS FREDERICK GRANT 746 MAIN ST LACHUTE QUE	B SC AGR 1
ROBINSON MIRIAM PHYLLIS 16 SHORCLIFFE WESTMOUNT QUE	M A 2 HU 4 6206	ROGERS GORDON HARTT 536 CLARKE AVE WSMY 328 MAPLE AVE PEMBROKE ONT	B COM 3 WE 2 7208
ROBINSON PETER 1441 DRUMMOND ST MTL 363 SPRINGFIELD ST CHICOPEE MASS USA	B L S 1	ROGERS LAWRENCE D 210 CARLYLE AVE TOWN OF MT ROYAL QUE	B ENG 2 RE 8 3681

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ROGERS ROBERTA ANN MURIEL 210 CARLYLE AVE TOWN OF MT ROYAL QUE	B A 3 RE 8 3681	ROSE IRENE FRANCES 4640 PLAMONDON AVE APT 5 MONTREAL QUE	B A 1 RE 1 4684
ROGERS THOMAS ARTHUR 39 THURLOW RD MONTREAL 29 QUE	B A 4 HU 4 0206	ROSE MICHAEL ARNOLD JOHN 1436 ST MARK ST MTL QUE C O C M C SKOURIOTISSA CYPRUS	B COM 2 WE 7 5668
ROGG FAY RUTH 5020 ST KEVIN AVE MONTREAL QUE	B A 2 RE 7 4345	ROSEMAN THEODORE G 4785 MAPLEWOOD AVE MONTREAL QUE	B SC 2 RE 8 7031
ROGG WILLIAM 5020 ST KEVIN AVE MONTREAL QUE	B C L 3 RE 7 4345	ROSEN CARL 124 ABERDEEN AVE WESTMOUNT QUE	B C L 3 HU 9 4653
ROHT JAANUS BOX 55 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	B SC AGR 2	ROSEN JACK SAUL 732 DAVAAR AVE OUTREMONT QUE	B SC 4 CM 1 9380
ROITER HOWARD 5670 DUROCHER ST MONTREAL QUE	B A 4 CR 6 2328	ROSEN KAY RUTH 8608 BIRNAM ST MONTREAL 15 QUE	B A 3 CR 6 4883
ROLAND JOHN MURRAY M 38 MELBOURNE AVE TOWN OF MT ROYAL QUE	B ENG CH 5 RE 3 6857	ROSEN LAWRENCE LINDSEY 1441 DRUMMOND ST 59 MCRAE DR TORONTO 17 ONT	B A 2
ROLAND NANCY ELIZABETH 38 MELBOURNE AVE TOWN OF MT ROYAL QUE	B A 4 RE 3 6851	ROSEN LORALYNN 3600 UNIVERSITY ST MTL 7 0 LANARK GARDENS APTS LANARK & CROYDON WINNIPEG MAN	M S W 1
ROLF PETER 12006 LAVIGNE ST MONTREAL 9 QUE	B ENG MCH 3 FE 4 1069	ROSENBAUM ARTHUR HOWARD 5942 MOUNTAIN SIGHTS AVE MONTREAL QUE	M S W 1 RE 9 4223
ROLFE FREDERIC P N 6304 CHAMBORD ST MTL ST PHILIPPE R R 1 ARGENTEUIL CO QUE	B ENG COM 5 CR 2 2523	ROSENBAUM BARBARA JOAN 50 ABERDEEN AVE WESTMOUNT QUE	B A 4 HU 1 9023
ROLL DOROTHY FRANCES 6922 TERREBONNE AVE MONTREAL 28 QUE	B SC P OT 1 HU 1 5381	ROSENBAUM TERRY MICHAEL 2372 WILSON AVE APT 29 MONTREAL QUE	B SC 2 HU 6 8852
ROLLAND JOHN ROBERT 45 FINCHLEY MONTREAL 29 QUE	B ENG 1 HU 6 6484	ROSENBERG ISABETH SUSAN ROYAL VICTORIA COLLEGE 15 DEEPDALE DR GREAT NECK N Y USA	B A 2 VI 2 0113
ROLLAND PAULE 4174 OXFORD AVE MONTREAL QUE	PARTIAL HU 1 9276	ROSENBERGER JOHN WEAVER 545 PINE AVE W MTL 20200 NORTH PARK BLVD SHAKER HEIGHTS OHIO USA	MD CM 4
ROLLIT ELIZABETH B 2156 SHERBROOKE ST W MONTREAL QUE	B A 1 WE 7 1671	ROSENBLOOM HELEN 369 BLOOMFIELD AVE OUTREMONT QUE	B A 1 CR 9 5767
ROMAN ANDREW JOHN 4179 MELROSE AVE MONTREAL QUE	B SC 1 HU 4 9546	ROSENBLOOM MARVIN 882 BALL AVE MONTREAL QUE	B SC 1 CR 7 3685
ROMANOWSKI EVA MARIE 3335 RIDGEWOOD AVE APT 12 MONTREAL QUE	B A 3 RE 9 8366	ROSENBLOOM MARVIN VICTOR 369 BLOOMFIELD AVE OUTREMONT QUE	B SC 2 CR 9 5767
RONA STEVEN 4650 CLANRANALD AVE MONTREAL QUE	MED DIPL 3 HU 6 2260	ROSENFELD JACOB JACK 2195 NOEL ST VILLE ST LAURENT QUE	B ENG 1 RI 7 7617
RONDEAU CLEMENT HENRI 5775 10TH AVE MONTREAL 36 QUE	B SC 2 RA 8 7818	ROSENFELD RHODA 550 BRUNET ST VILLE ST LAURENT QUE	B A 1 RI 4 3608
RONISH ANDREW 6355 29TH AVE MONTREAL 36 QUE	B ENG 1 RA 2 5022	ROSENGARTEN SHARON E 5604 ROBINSON AVE COTE ST LUC QUE	B L S 1 HU 6 4656
ROONEY BEVERLEY TRAVERS 482 ROSLYN AVE WESTMOUNT QUE	B A 1 WE 7 3997	ROSENOFF STEVE 4604 HAMPTON AVE MONTREAL QUE	B A 3 HU 6 9468
RORKE JOHN HENRY 4236 MADISON AVE MTL 213 N PENN ST WEST CHESTER PA USA	MD CM 1 HU 1 7002	ROSENSTEIN LORNA 14 BROWN ST STE ANNE DE BELLEVUE QUE 6089 WILDERTON AVE MONTREAL QUE	2 TCHRS
ROSAL RIZALINA F 2046 VICTORIA ST MTL 98 CEBU AVE DILIMAN QUEZON CITY PHILIPPINES	B L S 1 VI 2 3517	ROSENSTEIN MARK MENDEL 5003 LACOMBE AVE MONTREAL QUE	B A 4 RE 8 1606
ROSALES ROMULO ANTONIO 649 MILTON ST MTL 3A AVE N O 907 MANAGUA NICARAQUA	B ENG 1 AV 8 5313		

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ROSENSTEIN MERVYN NORMAN 4690 BOUCHETTE MONTREAL 26 QUE	B A 1 RE 7 7934	ROSS PAUL 5609 RANDALL AVE COTE ST LUC QUE	B A 3 HU 1 1336
ROENSWIG MICHAEL SIMON 3281 APPLETON AVE MONTREAL QUE	B COM 1 RE 8 5613	ROSS RANDALL J 534 PRINCE ARTHUR ST W 1138 CULVER ST BAYLAND 19 CALIF USA	MD CM 2
ROSENTHAL DANNY EARL 5569 KING EDWARD AVE COTE ST LUC QUE	B ENG 2 HU 8 2866	ROSS SEYMOUR 5781 RAND AVE COTE ST LUC QUE	B SC 1 HU 8 4607
ROSENTHALL JULIE ANNE 4855 HAMPTON AVE MONTREAL 29 QUE	B A 1 HU 8 3826	ROSS VALERIE JEAN 3999 MONTROSE AVE WEST C O ELMWOOD SCHOOL ROCKCLIFFE PARK OTTAWA ONT	PH D 2
ROSENZWEIG MARILYN MACDONALD COLLEGE 2192 ALFRED LALIBERTE BORDEAUX QUE	3 TCHRS	ROSS WILLIAM ALEXANDER 4626 OXFORD AVE MONTREAL QUE	B ENG 1 HU 6 8372
ROSENZWEIG MAXIMILIAN 5438 MOUNTAIN SIGHTS AVE MONTREAL QUE	B ENG EL 3	ROSSBERG MORTON 5002 DE LA PELTRIE MONTREAL 29 QUE	B ARCH 2 RE 3 6281
ROSEVEAR MARY ELEANOR 1520 MCGREGOR ST MONTREAL 25 QUE	B A 4 WE 3 3927	ROSSMAN HOWARD SAMUEL 3483 PEEL ST MTL 273 PAULISON AVE PASSAIC N J USA	B ENG CH 4 VI 2 0862
ROSKIE ELEANORE 4131 SHERBROOKE ST W APT 6 MONTREAL QUE	M S W 2 WE 2 2941	ROSMAN RALPH 5470 BOURRET ST MONTREAL QUE	B SC 1 RE 8 4541
ROSKIES DOREEN JUDI 571 GROSVENOR AVE WESTMOUNT QUE	B SC 2 HU 4 4428	ROSS SMITH JEAN M F 5933 MC LYNN AVE MONTREAL QUE	B ED 4 RE 9 1195
ROSKIES ETHEL 5880 DOLBEAU ST MONTREAL QUE	M A 2 RE 3 9836	ROSSNER JOHN LESLIE 2015 KIMBERLEY ST MTL 16 WALNUT ST DEDHAM MASS USA	PH D 2 AV 8 9452
ROSKIES EVA FREDA 17 PAGNUELLO AVE OUTREMONT QUE	B A 1 CR 9 8295	ROTENBERG SHEVA 133 VILLENEUVE W MONTREAL QUE	3 TCHRS CR 9 8119
ROSKIES RALPH ZVI 571 GROSVENOR AVE WESTMOUNT QUE	B SC 3 HU 4 4428	ROTH CHARLES 2515 VAN HORNE AVE APT 8 MONTREAL QUE	B SC 3 RE 3 4821
ROSMAN MICHAEL ALEXANDER 3851 UNIVERSITY ST MTL 680 ISLAND PARK DR OTTAWA ONT	B SC 4 VI 4 0977	ROTH LEONARD CHARLES 4843 VICTORIA AVE MONTREAL QUE	B COM 1 HU 6 7586
ROSMARIN LEONARD AARON 509 OUTREMONT AVE MONTREAL QUE	M A 1 CR 2 8306	ROTH STEPHEN JEFFREY 5 BELLEVUE AVE WESTMOUNT QUE	B A 1 HU 4 0119
ROSS ALAN DAVISON 657 LANSDOWNE AVE WESTMOUNT QUE	B ENG CIV 4 HU 6 0807	ROTHMER JAMES 4393 HARVARD AVE MONTREAL QUE	B A 2 HU 6 3160
ROSS DAVID HOWARTH DOUGLAS HALL P O BOX 96 GATINEAU QUE	B SC 1	ROTHMAN ARTHUR MACDONALD COLLEGE 4808 MADISON AVE MONTREAL QUE	M S D DIP
ROSS DIANA D 2120 ST JOSEPH ST LACHINE QUE	B ED 4 ME 7 3835	ROTHMAN GERALD SOLOMON 5796 DARLINGTON AVE MONTREAL 26 QUE	B SC 1 RE 8 3148
ROSS DONALD A 548 PRINCE ARTHUR MTL 104 COULSTON AVE ASBESTOS QUE	B COM 3	ROTHMAN JACOB LAWRENCE 6434 CLANRANALD AVE MONTREAL QUE	B CL 3 RE 8 7090
ROSS DONALD MUNTLY APT C 20 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	M S D DIP	ROTSSTEIN AARON 7835 DE L EPEE AVE MONTREAL QUE	B SC 4 CR 6 9641
ROSS ELIZABETH ANN 418 PINE AVE W APT 9 MTL 123 DELORAINNE AVE TORONTO ONT	B N 2 AV 8 1917	ROTTENBERG HOWARD ARTHUR 5554 PINEDALE AVE COTE ST LUC QUE	B SC 1 HU 9 7604
ROSS HYMAN W 765 CHAMPAGNEUR AVE OUTREMONT QUE	A & B COM 1 CR 6 4034	ROUND CAROLINE SUSAN 21 DOON RD WILLOWDALE ONT	B ED PED 1
ROSS LINDA ANN 24 RODNEY AVE VALOIS QUE	3 TCHRS OX 7 3075	ROUNDING PATRICIA JANE 503 MANSFIELD AVE OTTAWA ONT	B SC MEC 2
ROSS MERILYN N 544 GROSVENOR AVE MONTREAL QUE	B SC P OT 5 WE 7 1277	ROUNDY JEAN ALLISON ROYAL VICTORIA COLLEGE 28 WOLCOTT AVE ANDOVER MASS U S A	B A 1 VI 9 0030

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FOUNTREE ANN ELIZABETH 40 PARKDALE AVE PTE CLAIRE QUE	B A 1 OX 5 4706	RUDNER MARTIN 787 POWELL AVE TOWN OF MT ROYAL QUE	B A 1 RE 7 3609
ROUTTENBERG ARYEH SAMUEL 629 PRINCE ARTHUR ST MTL 54 BROADWAY ROCKVILLE CENTRE NEW YORK USA	B A 3 VI 9 0739	RUDY GERALD 790 BLOOMFIELD AVE OUTREMONT QUE	B SC 3 CR 7 7597
ROWAN LEGG JOHN STEWART DOUGLAS HALL 320 CLOVERDALE RD ROCKCLIFFE PARK ONT	B ARCH 2	RUDY RUTH 4630 DUPUIS AVE APT 4 MONTREAL QUE	B SC N 1 RE 1 1974
ROWAT JOHN DAVID 5226 COTE ST ANTOINE RD MONTREAL QUE	B A 1 HU 6 8737	RUDZITIS MARA MACDONALD COLLEGE 5155 RANDALL AVE APT 15 MONTREAL QUE	2 TCHRS 1
ROWE KERRY CHRISTOPHER BRITTAIN HALL 22 TUNSTALL AVE SENNEVILLE QUE	B SC AGR 2	RUE JEAN L BRITTAIN HALL SIEGAS MADA CO N B	B SC AGR 3
ROY CHARLES AUGUSTE 3535 ST FAMILLE MTL 69 OBLATE ST MONT JOLI QUE	B ENG EL 4 VI 9 5194	RUANEK JAY 1905 ST GERMAIN BLVD VILLE ST LAURENT QUE	B CL 1 RI 7 7273
ROY JOHN MINTY 70 LAGACE AVE DORVAL QUE	B ENG CH 4 ME 1 8147	RUMIN NICHOLAS 7462 BIRNAM ST MONTREAL QUE	B SC 1 CR 7 8490
ROY REYNOLD G 2031 JEANNE MANCE MTL 34 RUE METELLUS PETION VILLE HAITI	B ENG 2	RUMSCHEIDT FRITZ D 108 ASHGROVE APT 11 LAKESIDE QUE	PH D 4 OX 7 1063
ROY RITA 310 5TH AVE VERDUN QUE	GRAD DIP PO 6 7839	RUMSCHEIDT HANS M 34 GOLF AVE PTE CLAIRE QUE	B D 8 OX 5 3414
ROYLE JULIAN ADAM C DOUGLAS HALL HAYDENS END GREAT CAMFIELD DUNROW ESSEX ENGLAND	B SC 2 VI 2 7548	RUNGE EDWARD PAUL BOX 431 50 SELKIRK AVE HUDSON QUE	MD CM 2 VI 5 7849
ROYSTON PHILIP SIMON 18 RICHELIEU PL MTL 10 EGERTON PL LONDON S W 3 ENGLAND	B A 2 AV 8 2800	RUNGE LORNE ARTHUR 3484 PEEL ST MTL BOX 431 50 SELKIRK AVE HUDSON QUE	B COM 3 B SC 3
ROYTMANS PAULA 3161 VAN HORNE AVE MONTREAL QUE	B A 1 RE 9 5233	RUNNALLS DONNA RUTH 1009 SHERBROOKE ST W MTL 483 STEVESTON HWY R R RICHMOND B C	PARTIAL
ROZEN MARCEL 5135 PARK AVE APT 9 MONTREAL QUE	B ENG CH 5 CR 4 4725	RUSK THOMAS N 3433 DUROCHER ST APT 308 MONTREAL QUE	MD CM 2 AV 8 6785
ROZYCKI SOPHIE TERESA 2174 LINCOLN AVE APT 2 21 KASSON AVE TORONTO ONT	D D B 3 WE 2 2088	RUSNAK WIRA OLESSIA 2260 DORCHESTER ST W APT 6 MONTREAL 25 QUE	B A 1 WE 7 0245
RUBIN ANTHONY EARL 4666 VICTORIA AVE MONTREAL QUE	B SC 1 HU 6 2285	RUSSEL COLIN STEVENS 4845 WESTMOUNT AVE WESTMOUNT QUE	B ENG PHY 3 HU 6 4247
RUBIN FRANK 69 SPRINGROVE CRES OUTREMONT QUE	B COM 2 CR 9 3737	RUSSELL ALEXANDER 5119 MOUNTAIN SIGHTS AVE APT 4 MONTREAL QUE	B ENG EL 3
RUBIN JOSEPH WILLIAM 10 GLENMORE RD HAMPSTEAD QUE	B SC 3 HU 8 4046	RUSSELL JUDITH LATHAM 176 STRATHCONA DR TOWN OF MT ROYAL QUE	B A 2 RE 3 3238
RUBIN MAXINE BEVERLY 46A PERRAULT STE ANNE DE BELLEVUE QUE 4605 MAPLEWOOD AVE MONTREAL QUE	3 TCHRS	RUSSELL PAUL LEWIS 3610 HUTCHISON ST MTL PINPACK RD RIDGEFIELD CONN USA	MD CM 4 VI 5 6376
RUBIN PHYLLIS N 69 SPRINGROVE CRES OUTREMONT QUE	M S W 2 CR 6 6731	RUSO OLGA MARIA 5210 MAYFAIR AVE MONTREAL QUE	B A 1 HU 8 8086
RUBY PRIMA SHAFER 3221 APPLETON AVE MONTREAL QUE	B A 4 RE 8 1479	RUST LAURENCE DEWITT 1534 PINE AVE W APT 2 MONTREAL 2 QUE	MA 1 WE 7 1570
RUBA GORDON HARVEY 5727A ESPLANADE AVE MONTREAL QUE	B A 2 CR 6 3839	RUTENBERG DAVID SOLOMON 4576 DRAPER AVE MONTREAL QUE	B ENG MCH 5 HU 1 0770

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RUTHERFORD PETER JOHN BRITAIN HALL 7465 OUTREMONT AVE MONTREAL QUE	P E DIP 1	SAGAR RICHARD BRIAN 3609 UNIVERSITY ST MONTREAL QUE	PH D 2 AV 8 6707
RUTKIS VALENTINE 2699 LECLAIRE ST MONTREAL 4 QUE	B ENG 1 CL 5 2707	SAGER ROSS BEDFORD MUT B 2 MACDONALD COLLEGE R R 1 ST GEORGE ONT	B SC AGR 4
RUTMAN HARRIET SYLVIA 5607 RAND AVE COTE ST LUC QUE	3 TCHRS	SAGINUR ROSALIND 6692 WILDERTON AVE MONTREAL QUE	B SC 1 RE 8 7235
RYAN ELIZABETH ANNE MONTBRIANP SENNEVILLE RD SENNEVILLE QUE	B A 1	SAIBIL ERIC A 5050 HUDSON RD MONTREAL 26 QUE	B SC 1 RE 8 0653
RYAN FRANCIS PAUL DOUGLAS HALL 8 CHURCH ST CHATEAUGAY N Y USA	MD CM 3 VI 4 0977	SAIBIL FREDRIC GORDON 1201 ST VIAEUR ST W OUTREMONT QUE	B SC 1 CR 1 2086
RYDER JOHN ALICK 3653 UNIVERSITY ST MTL 2 NOOREHILL DR TORONTO 17 ONT	B SC 3 VI 5 2738	SAIBIL MYRNA 1201 ST VIAEUR ST W OUTREMONT QUE	B A 3 CR 1 2086
RYDER ROSLYN JUDITH J 151 EVELYN AVE GREENFIELD PARK QUE	3 TCHRS OR 1 1466	SAIKI JOHN HARRIS 3444 DUROCHER ST MTL 302 ALPHA AVE GRANDFORKS NORTH DAKOTA USA	MD CM 3 AV 8 4344
RYERSON PETER D 4555 GRAND BLVD APT 11 MONTREAL QUE	B ENG 2 HU 1 1742	SALA ILONA MARILYN ROYAL VICTORIA COLLEGE RIVER BEAUDETTE QUE	B A 1 VI 8 0829
RYKLES LILLIAN 2177 GOVER ST MONTREAL QUE	B SC P OT 3 RE 3 7398	SALAMAT HAROON 1001 SHERBROOKE ST W MTL BARRACKPORT TRINIDAD W I	PARTIAL VI 4 2122
S		SALAMIS CONSTANTINE 3548 JEANNE MANCE ST MONTREAL 18 QUE	B ENG 1 AV 8 7587
SA ADAM DAVID MOUNIR DOUGLAS HALL WOODSTOCK VERMONT USA	MD CM 1	SALAMIS MARIKA 3548 JEANNE MANCE ST MONTREAL 18 QUE	B A 4 AV 8 7587
SABA ALBERT HADDAD 3241 FOREST HILL APT 41 3939 OAKMORE RD OAKLAND CALIF USA	D D S 4 RE 3 1926	SALEM ALFRED ABDULLAH 3325 VAN HORNE AVE MONTREAL QUE	B ENG CH 5 RE 7 4974
SABEN HUGH S BRITTAIN HALL P O BOX 650 KAMPALA UGANDA E AFRICA	B SC AGR 2	SALEM GEORGE ALBERT 420 COTE DE LIESSE RD TOWN OF MT ROYAL QUE	D D S 3 RE 3 1937
SABIA MAWREEN J ROYAL VICTORIA COLLEGE 29 EDGEDALE RD ST CATHARINES ONT	B A 2 VI 2 0495	SALGADO ISIDRO DIEZ 4970 QUEEN MARY RD MONTREAL QUE	MED DIPL 3 RE 9 4236
SACHS MORTON 5531 WESTBOURNE COTE ST LUC QUE	B COM 3 HU 8 1919	SALHANY CAROL ANN ROYAL VICTORIA COLLEGE 346 CUMBERLAND ST CORNWALL ONT	B A 2 VI 2 0113
SADEEK MAJEED MACDONALD COLLEGE PREVEAL COMVA TRINIDAD W I	B SC AGR 1	SALHANY JOANNE F 1800 LAIRD BLVD TOWN OF MT ROYAL QUE	B A 2 RE 8 3023
SADLER DAVID FILMORE APT C 21 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	2 TCHRS 1	SALKUCKI VIRGINIA GAIL 3455 STANLEY ST MTL 715 NOYES ST UTICA N Y USA	MD CM 2 VI 4 8086
SADLER SALLY ANN STEWART HALL 900 SHERBROOKE ST W APT 43 MONTREAL QUE	B ED P ED 2	SALMAN TALAT MEHMET 11885 FILION ST MONTREAL QUE	PH D 2 FE 4 4215
SADDIE GABRIEL 1940 CLINTON AVE MONTREAL QUE	B COM 1 RE 3 8932	SALMON PATRICK ARTHUR J 425 MOUNT ROYAL W MTL 31 WELLINGTON COURT LONDON S W 1 ENGLAND	B SC 2 CR 7 4618
SADDIE MOSHE 1940 CLINTON AVE MONTREAL QUE	B ARCH 5 RE 3 8932	SALOMON ALLAN 4851 COTE ST LUC APT 210 MONTREAL QUE	B COM 4 HU 4 2432
SADRAH GERSON 3138 BOURREY AVE APT 17 MONTREAL QUE	B SC 1 RE 1 4867	SALOMON MYRABEL 4855 JEAN BRILLANT MONTREAL QUE	B A 3 RE 7 2359
		SALONEN ILONA STEWART HALL 263 MURDOCK AVE NORANDA QUE	3 TCHRS

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SALTER JOYCELYN A O LAIRD HALL 5045 BORDEN AVE MONTREAL 29 QUE	2 TCHRS 2	SANOSTER DONALD FREDERICK 5815 SOMERLED AVE MONTREAL 29 QUE	M SC 2 MU 9 2026
SALZBERGER MARGARET 4640 CLANRANALD AVE APT 4 MONTREAL QUE	B A 2 MU 1 9121	SANOSTER GEORGE PERCY BRITTAIN HALL BAINSVILLE ONT	B SC AGR 2
SAMAD SYED ABDUS 3609 UNIVERSITY ST MTL SYED KUTHI DAGGA 2 PAKISTAN	PH D 4 AV 8 6307	SANOSTER JAMES MALCOLM 456 PINE AVE W APT 28 MTL 222 BELVEDERE ST N SHERBROOKE QUE	M SC 1 VI 9 0884
SAMBHI MOHINDER PARTAP 12 AMESBURY APT 574 MONTREAL QUE	PH D 2 WE 2 2284	SANOSTER JANE ELIZABETH DOUGLAS VICTORIA COLLEGE ROUTE 1 BOX 83 BOYDS MARYLAND USA	B SC 3 VI 2 0113
SAMEKTO UMIE L 3474 MCSTAVISH ST APT 4 TANAH TINGGI TIMUR K 2 JAKARTA	GRAD DIP 2 VI 2 0805	SANOSTER JANET M STEWART HALL 222 BELVEDERE ST SHERBROOKE QUE	P E DIP 2
SAMONIQ PAUL J 3880 LINTON AVE APT 7 MONTREAL QUE	PARTIAL RE 8 6250	SANKEY JOHN DOUGLAS DOUGLAS HALL 46 SOUTH DR ST CATHARINES ONT	B ENG EL 3 AV 8 4587
SAMSON JACQUES E 234 10TH AVE RICHELIEU QUE	B ENG 2 OL 8 8524	SANKOFF DAVID LAWRENCE 464 DUFFERIN RD HAMPSTEAD QUE	B SC 1 MU 6 2879
SAMUEL FRANK W 3506 UNIVERSITY ST MTL 210 FEMBOKE ST PORT OF SPAIN TRINIDAD T W I	B COM 3 VI 4 0624	SANKOFF GARY SEYMOUR 5152 WILDERTON AVE MONTREAL QUE	D D B 3 RE 7 5458
SAMUELS ELLIOT MARK 5849 TRANS ISLAND AVE MONTREAL QUE	B A 3 RE 7 1392	SANKOFF IRWIN 464 DUFFERIN RD HAMPSTEAD QUE	M SC 1 MU 6 2879
SAMUELS ERIC R BOX 181 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	M SC 2	SANOWAR HYDRI NOREEN ROYAL VICTORIA COLLEGE 16 IMRIE ST LES EFFORTS EAST SAN FERNANDO TRINIDAD W I	B A 1 VI 9 0030
SAMUELS EVELYN 221 HARTLAND AVE OUTREMONT QUE	B A 1 RE 7 0733	SANSFACON LISE 569 LIEGE ST MONTREAL QUE	L MUS 1 DU 8 0972
SANCHINI LOUIS ROBERT A 8656 WAVERLY MONTREAL QUE	B ENG 2 DU 8 2168	SANTERRE JACQUELIN STE ANNE DE LA POCAIERE CTE DE KAMOURASKA QUE	M SC 2
SAND JACK GEORGE 211 DRESDEN AVE TOWN OF MT ROYAL QUE	B A 1 RE 9 5393	SANTONI CAROLE NANCY MACDONALD COLLEGE 239 GAY LUSSAC ST ARVIDA QUE	3 TCHRS
SANDER FINN 38 4TH AVE SOUTH ROXBORO QUE	B ENG 2 MU 4 2548	SARGEANT SUZANNE MARJORIE 1009 SHERBROOKE ST W MTL 1139 FIELD ST OTTAWA ONT	B SC P OT 2
SANDERS STEPHEN 5765 PALMER AVE COTE ST LUC QUE	B SC 2 MU 8 2722	SARGENT CAROL C LAIRD HALL 165 HERBERT ST VILLE ST LAURENT QUE	2 TCHRS 2
SANDLER BERNARD 1921 BARCLAY AVE MONTREAL QUE	B SC 1 RE 3 0277	SARKAR SUBANTA KUMAR 529 PRINCE ARTHUR ST W P 34 BANQUA AVE CALCUTTA 28 INDIA	M SC 2
SANDLER HELENA 1921 BARCLAY AVE MONTREAL QUE	MUS B 2 RE 3 0277	SARRASIN WILLIAM BRITTAIN HALL MASSAWIPPI QUE	B SC AGR 2
SANDLER MELVYN 450 HARRIS ST MONTREAL 9 QUE	B SC 3 RI 4 5060	SARRAZIN MARIE LUCE M MACDONALD COLLEGE P O BOX 57 BAIE COMEAU QUE	B SC M EC 1
SANFORD GEORGE BRENTON R 419 ST MICHEL ST ST JOHNS QUE	M A 2	SAUCIER CAROLYN D ROYAL VICTORIA COLLEGE 2226 AMHERST ST CALGARY ALTA	B SC M 1 VI 2 0597
SANFT ARTHUR 4976 GLENCAIRN AVE MONTREAL QUE	B A 1 MU 1 9712	SAUNDERS IVAN GLEN 903 GIRONVARD AVE MTL BRYSON QUE	B ENG CIV 3
SANG HARRY 4433 ST DOMINIQUE ST MONTREAL QUE	B ENG 2 VI 4 9676	SAUNDERS JOAN WINELOE 5493 EARNSCLIFFE AVE MONTREAL 29 QUE	B SC P OT 1 MU 6 2868
SANGALANG FLORENCIO 2046 VICTORIA ST MTL 1732 MODESTO ST MALATE MANILA PHILIPPINES	B L S 1 VI 2 3517		

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SAUNDERS RODERICK DAVID 6325 SOMERLED AVE MONTREAL 29 QUE	B ENG 2 HU 8 4237	SCHAFER SHIRLEY 1081 ST VIATEUR ST MONTREAL QUE	B A 4 CR 1 3739
SAUNDERSON BRIAN HUGH 322 ELM AVE MONTREAL 6 QUE	B A 1 WE 7 6474	SCHAPIRA FRANK VICTOR 1120 LAJOIE AVE APT 5 OUTREMONT QUE	B COM 3 CR 1 5172
SAUVE BERNARD THOMAS 545 DESAULNIERS BLVD ST LAMBERT QUE	B ENG CIV 4 OR 1 7533	SCHARF MAX 2587 GOYER ST MONTREAL QUE	B ENG 2 RE 9 6244
SAUVE PAUL DOUGLAS 3810 MARLOWE AVE MONTREAL 28 QUE	M B W 1	SCHATIA DAVID 4510 KENSINGTON AVE MONTREAL 28 QUE	B C L 1 HU 4 8769
SAVAGE DIANA EILEEN 4309 MONTROSE AVE WESTMOUNT QUE	B A 2 WE 3 6428	SCHERZER BARTRAM PETER 4840 JEAN BRILLANT MONTREAL 26 QUE	B SC 1 RE 8 6416
SAVAGE JANET CASSILE 657 MURRAY HILL WESTMOUNT QUE	B A 3 HU 1 1572	SCHERZER MARTIN HUGH 4840 JEAN BRILLANT MONTREAL 26 QUE	B SC 3 RE 8 6416
SAVAGE JANET M STEWART HALL 298 QUEBEC ST SHERBROOKE QUE	2 TCHRS 2	SCHIFF BERNARD BARUCH 8557 MAYRAND ST MONTREAL QUE	B SC 4 RE 1 4569
SAVAGE STUART BLACKTON 258 SHERBROOKE ST W MTL MCCONNELL AVE BAYPORT N Y USA	B ENG MCH 5 VI 9 0714	SCHIFF DAVID 8557 MAYRAND ST MONTREAL QUE	MD CM 3 RE 1 4569
SAVETT MARSHALL LEONARD 4255 DUPUIS AVE APT 18 6 FERRIS AVE UTICA N Y USA	D D S 4 RE 8 9919	SCHIFF JERRY 5761 MCALEAR AVE COTE ST LUC QUE	B ENG CIV 3 HU 9 2777
SAVIDANT SIDNEY JAMES 3508 UNIVERSITY ST MTL 29 HAMILTONNEAUE ST LA TUQUE QUE	B ENG MET 5 VI 4 0752	SCHIFF LOUIS 8584 MAYRAND ST MONTREAL 16 QUE	B C L 4 RE 1 5249
SAWCHUK RAYMOND LEONARD S 3637 OXENDEN AVE MTL 319 COLUMBUS AVE OTTAWA ONT	B ENG COM 5 VI 9 0504	SCHIFF MORTIMER 8584 MAYRAND ST MONTREAL 16 QUE	PH D 2 RE 1 5249
SAZE BRIAN MITCHELL 5228 BYRON AVE MONTREAL QUE	B SC 4 HU 1 9570	SCHIFF NATHAN 5383 HUTCHISON ST MONTREAL QUE	B SC 1 CR 1 8684
SAZANT LARRY S 5718 MCMURRAY AVE COTE ST LUC QUE	B A 2 HU 8 7718	SCHINDLER JOHN NORMAN 598 GROSVENOR AVE WESTMOUNT QUE	B SC 4 HU 6 5178
SCARVELIE E BASIL 490 ORAHAM BLVD TOWN OF MT ROYAL QUE	B ENG MCH 5 RE 9 0480	SCHINDLER PATRICK FOSTER 598 GROSVENOR AVE WESTMOUNT QUE	B A 2 HU 6 5178
SCATTERGOOD JOHN WILLIAM MACDONALD COLLEGE 2 WATERTON RD WESTON ONT	B SC AGR 1	SCHIRMER AUDREY FELLOWS ROYAL VICTORIA COLLEGE 35 FAYSTON ST DORCHESTER 21 MASS USA	B SC 1 VI 2 0571
SCHABTACH ERIC ROYAL VICTORIA COLLEGE 1186 LOWELL RD SCHENECTADY 8 N Y USA	B SC 1	SCHLAER BARBARA 4833 VICTORIA AVE MONTREAL QUE	B A 3 HU 6 1490
SCHABTACH GRETCHEN ROYAL VICTORIA COLLEGE 1186 LOWELL RD SCHENECTADY 8 N Y USA	B SC 4 VI 2 0477	SCHLESINGER SUSAN NAOMI 14 BROWN ST STE ANNE DE BELLEVUE QUE 4948 ISABELLA AVE MONTREAL QUE	2 TCHRS
SCHACTER WILLIAM M 4935 MARIETTE AVE MONTREAL QUE	M ARCH 1 AV 8 3336	SCHLIEPER HEINRICH CONRAD 3530 DUROCHER ST APT 20 MONTREAL QUE	M A 2 AV 8 4879
SCHACTMAN MORRIE 49 MCNIDER AVE OUTREMONT QUE	B COM 2 CR 9 8273	SCHONBRUN ROBERT GARY 1189 CRESCENT ST APT 14 MONTREAL QUE	D D S 3
SCHAFFELER PETER MICHAEL 3851 UNIVERSITY ST MTL 45 PRINCE ST DRUMMONDVILLE QUE	B COM 4 VI 5 9947	SCHLUDERMANN BRIGETTE 156 MONTERREY PTE CLAIRE QUE 41 KINGSWAY WINNIPEG 9 MAN	B A 3 OX 5 6384
SCHAFFELER SELV ANN MACDONALD COLLEGE 45 PRINCE ST DRUMMONDVILLE QUE	B SC H EC 1	SCHNAISBERG ALLAN 6735 WILDERTON AVE MONTREAL 26 QUE	B SC 4 RE 1 4512
SCHAFFER ROBERT 6175 WILDERTON CRES MONTREAL QUE	PH D 3 RE 7 5400	SCHNAPP OSCAR 4856 ST URBAIN ST MONTREAL QUE	B A 1 CR 9 5002
		SCHNEIDER BERNARD K 5301 KING EDWARD AVE MONTREAL 29 QUE	B A 2 HU 6 1747

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NAME ADDRESS	COURSE & YEAR TEL. NO.	NAME ADDRESS	COURSE & YEAR TEL. NO.
SCHNEIDER HENRY 212 ST JOSEPH BLVD W MONTREAL QUE	PH D 4 CR 2 4783	SCHWARTZ MAXINE PHYLLIS 5011 GROSVENOR AVE MONTREAL QUE	2 TCHRS RE 8 7823
SCHNEIDERMAN GERALD VERDUN PROTESTANT HOSP VERDUN QUE BOX 121 KEMPTVILLE ONT	MED DIPL 1	SCHWARTZ RICHARD MARTIN 6574 21ST AVE MONTREAL 36 QUE	B ENG 1 RA 7 5333
SCHNELLER STEPHEN GEORGE 3200 GOYER ST MONTREAL QUE	B ENG MCH 4	SCHWARTZ SHIRLEY 637 QUERBES AVE OUTREMONT QUE	B SC P OT 2 CR 7 5312
SCHOFIELD SHARON DALE 33 ELMWOOD AVE SENNEVILLE QUE	2 TCHRS 1	SCHWARTZMAN ALEX ELIE 5226 SARANAC AVE MONTREAL QUE	PH D 4 HU 9 2158
SCHOLTZ DANIAL JACOBOS 5698 SOMERLED AVE MONTREAL QUE	B ENG CIV 4 HU 9 1784	SCHWARTZMAN MELAINE 4572 MICHEL BIDAUD ST MONTREAL QUE	B A 4 RE 1 5612
SCHREIER ROMANA MARIA 5207 VICTORIA AVE APT 14 MONTREAL QUE	B A 2 RE 8 0594	SCHWARZ LUIS H M VERDUN PROTESTANT HOSP 6875 LASALLE BLVD VERDUN QUE	MED DIPL 1 HU 6 0952
SCHROEDER JOYCE MARION 1227 SHERBROOKE ST W APT 63 MTL 16 COOTE ST CHILLIWACK B C	GRAD DIP 1 AV 8 5608	SCHWEITZER ARTHUR 5280 MARIETTE AVE MONTREAL 29 QUE	B C L 1 HU 6 0952
SCHROEDER MAIDA MARY F 6 WINDSOR AVE WSMT 162 GLENCAIRN AVE TORONTO 12 ONT	M A 3 HU 4 8861	SCHWENK AUGUST CHRISTIAN 3524 DUROCHER ST APT 4 MONTREAL QUE	MD CM 4 VI 5 9951
SCHULICH SEYMOUR 4501 DECARIE BLVD APT 6 MONTREAL 28 QUE	B SC 3 HU 1 3951	SCHWERTFEGER PETER 2369 MADISON AVE MONTREAL QUE	PH D 2
SCHUR WILLIAM NATHAN 6775 COTE ST LUC RD COTE ST LUC QUE	MD CM 1 HU 1 0821	SCHWERTFEGER ROLAND W 4360 CORONATION AVE MONTREAL QUE	B ENG 2 HU 9 3020
SCHWARTZ ARTHUR MARK 4960 BOURRET ST APT 201 MONTREAL QUE	B A 2 RE 9 5815	SCOTT ALASTAIR JOHN D APT 301 CARLTON HOUSE 1000 2 MCNEGOR ST MONTREAL QUE	B COM 1
SCHWARTZ CAROL JEAN 51 PERRAULT AVE STE ANNE DE BELLEVUE QUE 5011 GROSVENOR AVE MONTREAL QUE	3 TCHRS	SCOTT DWIGHT G 2104 VENDOME AVE MTL 1884 CHAMPLAIN AVE SHAWINIGAN QUE	B ENG 2 HU 4 1758
SCHWARTZ DAVID M 4507 KENSINGTON AVE MONTREAL QUE	B SC 2 HU 6 6242	SCOTT EDWARD JOHN RANKIN 3429 PEEL ST MTL CULKERTON TETSBURY GLOS ENGLAND	B A 4 VI 9 9928
SCHWARTZ DINA ANTHONY ROYAL VICTORIA COLLEGE 2348 RIVER RD JACKSONVILLE FLORIDA USA	B A 2 VI 2 0334	SCOTT ELAINE GAIL 688 GROSVENOR AVE WESTMOUNT QUE	B A 4 HU 1 5811
SCHWARTZ FRED SAUL 814 OUTREMONT AVE MONTREAL QUE	B SC 3 CR 2 0812	SCOTT HOWARD NEIL 688 GROSVENOR AVE WESTMOUNT QUE	B COM 1 HU 1 5095
SCHWARTZ GERALDINE 3085 LINTON AVE APT 13 MONTREAL 26 QUE	M B D DIP RE 1 0868	SCOTT JOHN GAVIN 3810 MOUNTAIN ST MONTREAL QUE	B ARCH 4 VI 5 3790
SCHWARTZ HOWARD MARTIN 1020 LAPOINTE ST VILLE ST LAURENT QUE	B SC 1 RI 7 2377	SCOTT MALCOLM CAMPBELL 5802 WENTWORTH AVE COTE ST LUC QUE	B ENG MCH 3 HU 6 6062
SCHWARTZ HYMAN HARRY 2525 VAN HORNE AVE APT 8 MONTREAL QUE	PARTIAL RE 9 8737	SCOTT MARIANNE FLORENCE 3848 MELROSE AVE MONTREAL 28 QUE	PARTIAL HU 4 8763
SCHWARTZ HYMAN LIPPE 637 QUERBES AVE OUTREMONT QUE	B A 4 CR 7 5312	SCOTT MARY FREDA 6360 GODFREY AVE MONTREAL QUE	B A 2 HU 4 0387
SCHWARTZ JACK 4825 BORDEN AVE MONTREAL QUE	B SC 1	SCOTT MONICA ADELLE V ROYAL VICTORIA COLLEGE KINGSTON ST PHILIP BARBADOS W I	B SC 2 VI 2 0147
SCHWARTZ LIONEL 6300 LENNOX AVE MONTREAL QUE	B A 4 RE 8 1957	SCOTT NANCY SUSAN 3980 COTE DES NEIGES APT B17 MONTREAL QUE	M A 1 WE 5 7385
SCHWARTZ MARSHA 271 DE L EPEE AVE MONTREAL 8 QUE	B SC 1 CR 9 3122	SCOTT SIMON B 3851 UNIVERSITY ST MTL WATTLEFIELD SPEEN NEWSBURY BERKS ENGLAND	B A 3
		SCOTT STEPHEN ALLAN 636 CLARKE AVE WESTMOUNT QUE	B A WE 7 4403

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SCOTT VICTOR FITZGERALD 3511 PEEL ST MTL MOUNT HILL PEMBROKE WEST BERMUDA	PARTIAL VI 4 4777	SEGAL ABRAHAM 5147 MONTCLAIR AVE MONTREAL QUE	B C L 4 HM 8 0501
SCOTT WILLIAM NIGEL C 3426 STANLEY ST MTL CULKERTON TETSBURY GLOS ENGLAND	B A 1 VI 4 0360	SEGAL BENNY 5159 ST URBAIN ST MONTREAL QUE	PH D 4 CR 7 2974
SCULLY PETER DUNSTAN 17 STRATFORD RD HAMPESTEAD QUE	MD CM 3 HU 6 3202	SEGAL BERNICE LAIRD HALL 4668 DE LA PELTRIE MONTREAL QUE	3 TCHRS
SCUPHAM PETER ST JOHN 3453 SHUTER ST MTL SEON PLACE EAST BROADWAY HAMILTON BERMUDA	B SC 1 VI 9 4371	SEGAL JERRY 4668 DE LA PELTRIE MONTREAL QUE	B ENG EL 4 RE 1 5435
SEADALE EDWARD MARTLEY BOX 8 MACDONALD COLLEGE MAIN ST VINEYARD HAVEN MARTHAS VINEYARD MASS USA	D D B 4	SEGAL MARK 2630 BOISSONS AVE MONTREAL QUE	PH D 4 RE 8 1348
SEAGRAM CHARLES G F 3466 SHUTER ST APT 408 50 ALBERT ST WATERLOO ONT	MD CM 1 VI 5 9882	SEGAL MARK DAVID 4030 VENDOME AVE MONTREAL QUE	B A 1 HU 6 4482
SEAGRIM HERBERT JAMES 3331 UNIVERSITY ST MTL 20562 LAKESHORE RD SALE D URFEE QUE	B ENG CIV 3 VI 9 1368	SEGAL MARYIN 2260 GOVER ST MONTREAL QUE	B TCHRS 1 RE 3 5609
SEALE JOHN WARD ANDREW 1441 DRUMMOND ST MTL 78 VIAU ST VALLEYFIELD QUE	B SC 1	SEGAL MICHAEL 2270 VALAPE ST VILLE ST LAURENT QUE	B SC 1
SEALE JUDY DAWN 117 PRINCE EDWARD ST OTTENBURN HEIGHTS QUE	B SC 1	SEGAL MOEY 4869 JEAN BRILLANT ST MONTREAL QUE	B SC 3 RE 7 4880
SEALY DOROTHY ELVERE ROYAL VICTORIA COLLEGE O O T E SEALY CLEANER CO LTD KINGSTON JAMAICA W I	B A 4 VI 2 0147	SEGAL MURRAY 8137 BIRNAN AVE MONTREAL QUE	B SC 2 CR 1 5496
SEAMONE CHARLES EDWARD 1533 MCGREGOR ST MTL 209 EMPIRE ST BRIDGEWATER N S	B ARCH 3 WE 5 0212	SEGAL NORTON M 4785 BOUCHETTE AVE APT 31 MONTREAL QUE	B A 2 RE 3 6226
SEARL WILLIAM E BRITAIN HALL 14 SECOND AVE MT LAMBERT TRINIDAD T W I	B SC AGR 4	SEGAL ROSLYN 1 ST ETIENNE STE ANNE DE BELLEVUE QUE 842 STUART AVE MONTREAL QUE	3 TCHRS
SEBASTIEN LEBLIE 2488 MAPLEWOOD AVE APT 7 MONTREAL QUE	B ENG MCH 5 RE 8 4152	SEGALL SHARON DIANE 6515 MOUNTAIN SIGHTS MONTREAL QUE	3 TCHRS RE 8 6488
SECORD BETTY J 151 STRATHEN AVE N 1508 LORNE AVE SASKATOON SASK	B N 2 HU 4 7008	SEGUIN DANIEL ANDRE 10 183 BLVD DES ORMES MONTREAL QUE	B SC AGR 1 DU 7 3155
SEDOEWICK ELIZABETH ANNE 236 BROCK AVE N MONTREAL WEST QUE	B A 1 HU 1 4193	SEGUIN MAURILLE GEORGES 3563 UNIVERSITY ST APT 3 29 REGENT ST E HAWKESBURY ONT	B ENG MCH 4
SEDLISKY ROSELYN HARRIET 5801 COTE ST LUC RD MONTREAL QUE	PARTIAL HU 1 7082	SEGUIN PIERRE C BRITAIN HALL 1270 MUIR BLVD VILLE ST LAURENT QUE	B SC AGR 1
SEELY JOHN F 666 BELMONT AVE WESTMOUNT QUE	MD CM 2 HU 4 1604	SEKINE TOMOHICO 2115 CLOSSE ST MTL 1857 1001 SUDOHAMIKU TOKYO JAPAN	M A 2 WE 5 8149
SEELY PETER T 666 BELMONT AVE WESTMOUNT QUE	B A 2 HU 4 1604	SELBY DAVID ADRIAN 1785 DEPATIE ST VILLE ST LAURENT QUE	M ENG 2 RI 7 3744
SEEMAN PHILIP 4125 BLUERIDGE CRES APT 10 MONTREAL QUE	MD CM 4 WE 7 8107	SELIGMAN FRED 3345 ELLENDALE AVE APT 11 MONTREAL QUE	WE CH 1 RE 7 8508
SEFERS VIESTURS 4571 COOLBROOK AVE MONTREAL QUE	B ENG EL 4 HU 4 8394	SENGHISHEN OREST MAX 1547 MCGREGOR ST MONTREAL QUE	MED DIPL 1 WE 3 9609
		SENDUEHLER MICHAEL JOSEPH 4921 CLANRANALD AVE MONTREAL QUE	MED DIPL 2
		SENEGAL HUBERT A N O 336 REDFERN WESTMOUNT QUE	B C L 2 WE 5 2257
		SENEZ JOHN ALBERT 841 SPILLER ST OTTENBURN PARK QUE	M SC 2

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SEPALL OLA KAARLO JOHAN 5255 DUDEMAINE APT 10 MONTREAL QUE	PH D 2 FE 4 3034	SHANFIELD ISIDORE 2970 BRIGHTON ST MONTREAL 26 QUE	B SC 1 RE 9 4189
SEPINWALL JERRY 5922 WESTBURY AVE MONTREAL 29 QUE	B A 3 RE 7 2788	SHANKARUK CHRISTINE M ROYAL VICTORIA COLLEGE 1932 THIRD AVE TRAIL B C	B SC P OT 1 VI 2 0397
SERBYN DANNY THEODORE 5117 18TH AVE MONTREAL 36 QUE	B ENG CIV 5 RA 7 7048	SHANNON BEVERLEY GILMOUR 669 BELMONT AVE WESTMOUNT QUE	B A 1 MU 1 8248
SERBYN ROMAN 6790 36TH AVE MONTREAL 36 QUE	B A 4 RA 7 0563	SHANTWANT JOHN 3508 UNIVERSITY ST MONTREAL QUE	B T M 1
SERVICE FREDERICK J DOUGLAS HALL 17 SYDENHAM ST THOROLD ONT	MED 2	SHAPCOTT MURRAY JOHN T BRITAIN HALL 500 BLVD DU LAC ST EUSTACHE SUR LE LAC REE	P E DIP 1
SETH HARI KRISHNA P O BOX 13 MACDONALD COLLEGE 560 SAIKA BAGH TRIBENI RD ALLAHABAD 3 INDIA	PH D 2	SHAPERA MICHAEL RONALD 5148 COTE ST LUC RD MONTREAL QUE	B A 2 MU 9 1032
SEYO WING 1441 DRUMMOND ST MTL BOX 471 MUNTSVILLE ONT	B ENG CH 4	SHAPIRO ALEXANDER 4742 MAPLEWOOD AVE MONTREAL QUE	B SC 3 RE 7 9906
SEYBOLD HUGH LAURIE 685 GROSVENOR AVE WESTMOUNT QUE	B ENG MCH 3 MU 1 4271	SHAPIRO ALVIN HOWARD 5547 OAKWOOD AVE COTE ST LUC QUE	B CL 3 MU 9 8395
SEYBOLD PETER SAUNDERSON 685 GROSVENOR AVE WESTMOUNT QUE	B ENG 1 MU 1 4271	SHAPIRO BARRY HOWARD 3733 THE BOULEVARD WESTMOUNT QUE	B A 3 MU 6 7746
SHACKELFORD ALBERT MARE 1518 ST ANTOINE ST MONTREAL QUE	PARTIAL WE 3 0938	SHAPIRO CAROL MARLENE 20A MAPLE AVE 6287 DEACON RD MONTREAL QUE	3 TCHRS
SHADOWITZ LARRY 4195 PLAMONDON AVE APT 8 MONTREAL QUE	B A 4 RE 1 4490	SHAPIRO DAVID B 3733 THE BOULEVARD WESTMOUNT QUE	D D S 2 MU 6 7746
SHADOWITZ MELVIN 4195 PLAMONDON AVE APT 8 MONTREAL QUE	PARTIAL RE 1 4490	SHAPIRO PALL HENRY 4904 PONSARD MONTREAL QUE	B A 1 RE 1 4650
SHAFFER ELAINE MARILYN 2720 SOISSONS AVE MONTREAL QUE	B SC M 1 RE 3 2286	SHAPIRO TOBA ESTHER 5524 RANDALL AVE COTE ST LUC QUE	B SC 2 MU 6 1651
SHAFFER HOWARD BERNIE 2165 BARCLAY AVE MONTREAL QUE	B SC 1 RE 7 0242	SHAPIRO VIVIAN RAPOPORT 1662 COLLEGE VILLE ST LAURENT QUE	M S W 1 MI 8 8049
SHAFFERMAN VICTOR NATHAN 711 STUART AVE OUTREMONT QUE	B A 1 CR 1 7836	SHARE NATHAN NORMAN 2159 GIRONQUARD AVE MONTREAL QUE	M SC 1 MU 8 8494
SHAHIN CLAUDETTE RACHEL C 2130 VINCENT ST VILLE ST LAURENT QUE	B A 1 RI 8 8476	SHARMA KAPIL DEV 3547 DUROCHER ST APT 10 V OHAGON RORAN WALI P O GARNISHANKAR DIST HOSHIAR PUR PANJAB INDIA	PH D 4
SHAIKOVITZ CHARLES B 4041 MARCIL AVE MONTREAL QUE	B SC 2 MU 4 2891	SHARP ARNOLD BEAUMONT 1000 MONCRIEFF TOWN OF MT ROYAL QUE	B CL 1 RE 8 0584
SHAKESPEAR NELLY M 456 PINE AVE W APT 26 MONTREAL QUE	PARTIAL VI 2 4929	SHARP BRIAN STANWAY 729 UPPER LANEDOWNE AVE WESTMOUNT QUE	B COM 2 MU 4 4882
SHAM SAMUEL OHI CHIU 3517 HUTCHISON ST MTL 90 ROBINSON RD 1ST FL HONG KONG	B ARCH 4 VI 9 0109	SHARP DUNCAN ADAIR WILSON HALL HOUSEHOLE BOX 10 OCHORIOS P O JAMAICA W I	B ENG 1
SHAMSIE SYED JALAL 6875 LABALLE BLVD VERDUN QUE 5A ZAILDAR PK ICHMIRA LAHORE PAKISTAN	MED DIPL 3 PO 6 8511	SHARP GORDON KELVIN G WILSON HALL MAY PEN JAMAICA T W I	B ENG 2
SHANE HANNAH 115 MELBOURNE AVE TOWN OF MT ROYAL QUE	PARTIAL RE 7 1789	SHARPE LOUIS RAMOX 3683 HUTCHISON ST APT 35 MONTREAL QUE	D D S 1 VI 9 7964
SHANFIELD FLORENCE 2970 BRIGHTON ST MONTREAL 26 QUE	B SC 1 RE 9 4189	SHARPE PATRICIA LOUISE 3783 GREY AVE MONTREAL QUE	M S W 1 MU 6 6232

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SHASHOMA EVELYN 5542 VAN HORNE AVE MTL 33 1 ABU EL NAWAS ST BAQHDAD IRAQ	B A 1 RE 3 9830	SHEENFIELD ALEXANDER D 5216 SARANAC MONTREAL 26 QUE	B SC 2 MU 8 8214
SHATTNER RHODA MARGARET 730 MCEACHRAN AVE OUTREMONT QUE	B SC 2 CR 2 6712	SHEENSON BARBARA ELAINE 629 PRINCE ARTHUR W MTL 8 GOLF CLUB RD TORONTO 13 ONT	B SC P OT 4 VI 9 0739
SHAW ELIZABETH ANNE 3501 PEEB ST APT 59 MTL LANDISVILLE PENN USA	M SC 2 VI 2 3563	SHEPHERD COLIN RYLEY 3564 DUROCHER ST MTL ARBOUR HILL ROSS ON WYE HPDS ENGLAND	B ENG 2
SHAW GILLIAN ELSPETH ROYAL VICTORIA COLLEGE CASILLA 2439 SANTIAGO CHILE S A	B SC 2 VI 2 0265	SHEPPARD JACK 1465 ELIZABETH BLVD ST MARTIN QUE	B A 1 MU 1 8765
SHAW JOHN F 4530 DECARIE BLVD APT 5 MONTREAL QUE	B SC 4 MU 9 4405	SHER MELVIN 5454 WAVERLEY ST MONTREAL QUE	B ENG COM 5 CR 1 7035
SHAW LESLIE M 603 POWELL AVE TOWN OF MT ROYAL QUE	B A 1 RE 7 9862	SHERECK BARRY MAURICE 8145 BIRNAN ST MONTREAL QUE	B SC 1 CR 9 5572
SHAW MARGARET ANNE 57 PALMERSTON AVE TOWN OF MT ROYAL QUE	B A 3 RE 7 1026	SHERIDAN BRIAN GEORGE 51 CHESTERFIELD AVE WESTMOUNT QUE	B ENG COM 5 MU 6 6888
SHEA GEORGE KEILLER BRITTAIN HALL 6 MACLEAN ST TRURO N S	B SC AGR 3	SHERMAN FRANCES BRENDA MACDONALD COLLEGE 3105 VAN HORNE AVE MONTREAL QUE	2 TCHRS 1
SHEA JAMES M 500 PINE AVE W MTL 99 LODGE ST MANCHESTER N H USA	MD CM 3	SHERMAN GERALDINE F ROYAL VICTORIA COLLEGE 205 ELIZABETH DR CHATHAM ONT	B A 2 VI 2 0598
SHEAHAN MARY BEATRICE 4557 SHERBROOKE ST W APT 24 MONTREAL QUE	GRAD DIP WE 7 6590	SHERMAN JACK 8567 MAYRAND ST MONTREAL QUE	B SC 1 RE 7 9382
SHEAR ALVIN 933 GROS ST VILLE ST LAURENT QUE	B SC 1 RI 4 0626	SHERMAN SANDRA 3196 KENT AVE MONTREAL QUE	B A 2 RE 8 7879
SHEARMAN JOHN LEIGH S 68 HAZELWOOD HUDSON QUE	PARTIAL	SHERWIN NANCY ELEANOR ROYAL VICTORIA COLLEGE 1445 CAMB ST CAMBRIDGE MASS USA	B A 1 VI 9 0993
SHEE NEIL DESMOND 3543 ADDINGTON AVE MONTREAL QUE	B C L 1 MU 4 7577	SHERWINE DAVID HENRY DOUGLAS HALL CARLTON HOUSE CARLTON RICHMOND YORKSHIRE ENGLAND	B A 2 VI 4 0977
SHEEHAN DENNIS 3466 JEANNE MANCE ST APT 9 MTL BLIND RIVER ONT	B SC 2	SHETLER KAYE JAMES G 37 HUDSON AVE TOWN OF MT ROYAL QUE	B C L 2 RE 9 0663
SHEFF ANNA 957 DUNLOP AVE OUTREMONT QUE	B A 1 RE 7 4772	SHETLER LEONARD R BRITTAIN HALL 4342 HAMPTON AVE MONTREAL QUE	P E DIP 2
SHEFF GERALD 957 DUNLOP AVE OUTREMONT QUE	B ARCH RE 7 4772	SHETLER WINNIFRED J 3480 ONTARIO AVE MTL 7441 DECHAMBOIS ST TOWN OF MT ROYAL QUE	B SC P OT 2 VI 2 0044
SHEIDOW NORMAN W MACDONALD COLLEGE CHERRY VALLEY P E I	B SC AGR 4	SHI KA LAU KENNETH 3509 HUTCHISON ST APT 503 MTL 68 VILLAGE RD GR FL HAPPY VALLEY HONG KONG	B SC 1
SHEINER GERALD 5947 DECELLER AVE APT 10 MONTREAL QUE	B C L 3 RE 3 9463	SHIACH ALLAN G 456 PINE AVE W APT 5 MTL AV 8 6738 ARDGILZEAN ELGIN MORAY SCOTLAND	B A 3
SHEINMAN ELEANOR STEWART HALL 5850 GRENIER AVE MONTREAL 29 QUE	2 TCHRS	SHIAU EDWIN LIANG Y 456 PINE AVE W APT A MTL VI 9 7268 22 BOWMAN ST W HONG KONG	MD CM 1 VI 9 7268
SHELDON DUNCAN BAKER 3485 MCTAVISH ST MTL 1620 OAK GROVE AVE SAN MARINO CALIF USA	B SC 3 VI 9 0141	SHIBATA HIROFUMI 3485 MCTAVISH ST MTL NO 17 KORA CHO SHIJAKU KU TOKYO JAPAN	M A 1 VI 4 0424
SHELLARD ALBERT EDWARD W 3800 DUPUIS AVE APT 28 MONTREAL 26 QUE	B ENG 2 RE 3 3584		
SHEN JOE YUET P O BOX 382 STA B MTL 5 DORET CRES 2ND FL KOWLOON HONG KONG	B ENG EL 4		

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SHIEN HANG SHAN BOX 121 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	M SC 1	SHOALE ROBERT WALTER 548 SHERBROOKE ST W MTL 7 MILLER ST NORWICH N Y USA	B SC 4 VI 4 0551
SHIELD WILLIAM GEORGE J 68 COOLBREEZE AVE APT 402 PTE CLAIRE QUE	B ENG 1 OX 5 3299	SHOLZBERG SHARON 8535 STUART AVE MONTREAL QUE	B SC 1 CR 9 4869
SHIFF HOWARD 1828 VAN MORNE AVE OUTREMONT QUE	B COM 1 RE 8 8689	SHOOFEY FRANKLIN D 9223 PARK AVE MONTREAL QUE	B A 3 DW 9 6365
SHIFF RONA LEE 3 SELOEIL AVE OUTREMONT QUE	B SC 2 RE 8 3735	SHORE BEN 3218 KENT AVE MONTREAL QUE	B SC 3 RE 7 2824
SHIFF THEODORE 3 SELOEIL AVE OUTREMONT QUE	B SC 4 RE 8 3735	SHORROCK RICHARD WILLIAM 4341 HARVARD AVE MONTREAL 28 QUE	B SC 1 MU 4 7257
SHILINGOVSKY SARAH KEILA 5431 TRANS ISLAND AVE MONTREAL QUE	B SC P OT 2 MU 1 4754	SHORT JUDITH M STEWART HALL 23 HAMPTON GARDENS LAKESIDE QUE	P E DIP 2
SHILLER BARRY MORTON 28 SHORNCLIFFE AVE WESTMOUNT QUE	B A 4 MU 1 7955	SHORTLAND ERNEST F 71 ANGEL AVE SEACONSFIELD QUE	PH D 2 OX 7 1712
SHILLER BRYANT MARVIN 167 PAGNUELO AVE MONTREAL QUE	B ENG EL 4 CR 2 9725	SHOSTAK JACK 4020 LINTON AVE APT 5 MONTREAL 26 QUE	B ENG 1 RE 9 1542
SHILLER CAROLE RONA 28 SHORNCLIFFE AVE WESTMOUNT QUE	B A 3 MU 1 7955	SHOUS LOUIS 2755 BRINTON RD MONTREAL 26 QUE	B ENG EL 4 RE 3 8533
SHILLINGFORD LENNOX MARK MACDONALD COLLEGE DUSLANC DOMINICA W I	B SC AGR 1	SHOWER VIVIAN LEE ROYAL VICTORIA COLLEGE 150 WILLIAM ST BOX 273 COWANVILLE QUE	B SC 2 VI 2 0334
SHILOV MARIAN 4323 CIRCLE RD ST GENEVIEVE QUE	B A 3 NA 6 3601	SHPIKULA NORMAN ALEXANDER 3430 DRUMMOND ST APT 9 68 EVANS AVE TORONTO 9 ONT	D DS 4 VI 9 4418
SHIMELMAN MORRIS MYER 3483 PEELE ST MTL 631 BOISJOLI ST SHERBROOKE QUE	B ENG 1 VI 2 0882	SHPIRO EDWARD JACOB 430 WILLOWDALE AVE APT 20 MONTREAL QUE	B ENG 2 RE 3 0632
SHINDER LIONEL 5760 ST LAWRENCE BLVD MONTREAL QUE	H E D DIP CR 1 8850	SHRIMPSTON HOWARD T 285 EMPIRE AVE GREENFIELD PARK QUE	B ENG CIV 4 OR 1 1549
SHINKODA RYUICHI 35 FIRST AVE LASALLE QUE	B ENG 1 PO 8 3102	SHRIVASTAVA GYAN CHANDRA 3619 UNIVERSITY ST MTL 47 2 KABIR MARG LUCKNOW INDIA	PH D 1
SHINNERS MICHAEL PATRICK 340 BROUSSEAU RD LAPRAIRIE QUE	B ENG CIV 4 OL 9 1664	SHTERN ISRAEL MIRSH 220 FAIRMOUNT ST W APT 12 MONTREAL QUE	PH D 3 CR 4 0321
SHIP SHIRLEE ETHEL MACDONALD COLLEGE 6725 MOUNTAIN SIGHTS MONTREAL 29 QUE	2 TCHRS 1	SHTERN SIDNEY 5336 JEANNE MANCE ST MONTREAL QUE	B SC 4 CR 9 8349
SHIPLEY JOHN ROBERT 2125 SUNSET RD MONTREAL 16 QUE	B SC 1 RE 3 7967	SHULL EDWARD A 782 OUTREMONT AVE MONTREAL QUE	B SC 3 CR 2 8471
SHIPTON GAIL PATRICIA 575 LOGAN ST ST LAMBERT QUE	2 TCHRS 1	SHUFELT DAVID WEBB MACDONALD COLLEGE EAST FARNHAM QUE	B SC AGR 3
SHIRLAW MICHAEL RIVERS 5981 COTE ST ANTOINE RD MONTREAL QUE	B ENG CIV 5 MU 8 5052	SHULMAN BARBARA SUSAN 1071 BLEURY ST MTL 50 DARWOOD PL MT VERNON N Y USA	B SC 4 UN 1 6187
SHIZOAL BERNARD 5753 MCALEAR AVE COTE ST LUC QUE	B SC 1 MU 8 5025	SHUSTER DAVID NORMAN 3525 GIRONARD AVE MONTREAL QUE	B SC 3 MU 1 1403
SHIZOAL HARRY M 5753 MCALEAR AVE COTE ST LUC QUE	B SC 1 MU 8 5025	SHUSTER EDNA 4848 ISABELLA AVE MONTREAL QUE	B A 1 RE 3 6738
SHIZOAL MORTIMER DAVID 4720 LACOMBE AVE MONTREAL QUE	D D S 1 RE 8 5937	SHUSTER HARVEY JACK 3609 UNIVERSITY ST MTL 391 ROBERTSLAND AVE WINNIPEG MAN	D D S 3 AV 8 6307
SHLIEN DAVID JOSEPH 8027 STUART AVE MONTREAL QUE	B ENG MCH 4 CR 1 6982		

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SICARD MARIE Y C M 6235 GOUIN BLVD EAST MONTREAL NORTH QUE	B A 1 DA 2 4834	SILVERMAN ROBERT 4746 LACOMBE AVE MONTREAL QUE	L MBS 3 RE 8 1458
SICHEL JOHN W 4818 DORNAL AVE MONTREAL 26 QUE	B SC 1 RE 8 9315	SILVERMAN SONIA 5467 CAVENDISH BLVD MONTREAL 29 QUE	B SC P OT 1 HM 9 6209
SIEGEL LESLA ROSALIND 5687 QUEEN MARY RD HAMPSHIRE QUE	B A 1 HM 8 7160	SILVERSON LOIS MARGARET E S TCHRS MACDONALD COLLEGE R R 6 LACHUTE QUE	1
SIEGLE ELIZABETH MARGARET 620 PRINCE ARTHUR ST W MONTREAL QUE	B SC 4 AV 8 4678	SILVERSTONE JOSEPH 3734 COTE STE CATHERINE APT 11 MONTREAL QUE	B CL 2 RE 3 9067
SIERADZKI WERNER 403 ST JOSEPH BLVD W APT 2 OUTREMONT QUE	B ARCH 3	SILVERTON SANDRA RACHAEL 5137 CLANRANALD AVE MONTREAL QUE	B A 4 HM 8 8581
SIGMAN GERALD 4828 MELROSE AVE MONTREAL QUE	MD CM 2 HM 6 6813	SILVESTER PEET 3660 LORNE CRES APT 3 MONTREAL QUE	PH D 2 AV 8 6769
SIGMAN HARVEY M 656 LANSDOWNE AVE WESTMOUNT QUE	M SC 1 HM 6 2312	SIMAND MURRAY 5603 MCLEAR AVE COTE ST LUC QUE	B SC 1 HM 6 6870
SIGNER DAVID JOSEPH 5390 HUTCHISON ST OUTREMONT QUE	D D S 1 CR 6 3451	SIMANIS ADRIIS 130 PRINCE ARTHUR ST W APT 1 MONTREAL 18 QUE	B ENG 1 VI 4 9791
SIKOFAND RUTH 5601 WENTWORTH AVE COTE ST LUC QUE	2 TCHRS 1	SIMARD MICHEL JOSEPH 723 DUNLOP ST MONTREAL QUE	B COM 4 RE 3 2881
SILBERMAN MATTHEW 5350 MONTCLAIR AVE MONTREAL 29 QUE	B SC 1 HM 9 1441	SIMARD NICOLE ROYAL VICTORIA COLLEGE 640 ST LOUIS RD QUEBEC CITY QUE	B A 3 VI 2 0334
SILCOFF BRIAN 5156 HUTCHISON ST OUTREMONT QUE	B A 1 CR 1 5149	SIMCOE LEONARD 330 ALEXIS NIMON BLVD VILLE ST LAURENT QUE	B CL 4 RI 7 2713
SILMY ENRIQUE 456 PINE AVE W APT 40 3RD AVE NTE 3 APARTADO POSTAL 3 SAN SALVADOR EL SALVADOR C A	B ARCH 6	SIMINOVITCH EVELYN P WOMENS RESIDENCE MACDONALD COLLEGE 766 MC EACHRAN AVE OUTREMONT QUE	3 TCHRS
SILON ELIAMU 3495 VAN HORNE AVE APT 4 MONTREAL QUE	B ENG MCH 5 RE 3 7334	SIMON JAMES ERWIN GUNTER 855 MARBORO DR TOWN OF MT ROYAL QUE	M A 2 RE 3 5000
SILVER CHARLES J 634 SYDENHAM AVE WESTMOUNT QUE	B SC 2 HM 6 1916	SIMMONS BARBARA JANE 1009 SHERBROOKE ST W MTL 78 HIGHLAND AVE TORONTO ONT	B SC P OT 2
SILVER DANIEL 1029 BALL AVE MONTREAL QUE	B SC 4 CR 4 4888	SIMMONS FRED ALBERT 545 PINE AVE W MTL 61 CROWNSHIELD RD BROOKLINE MASS USA	MD CM 3
SILVER FRANCES CALLA 634 SYDENHAM AVE WESTMOUNT QUE	B A 3 HM 6 1298	SIMMONS GLORIA JANET ROYAL VICTORIA COLLEGE DEVONSHIRE W BERMUDA	B SC 3 VI 2 0833
SILVER JOANNA MAUDE S ROYAL VICTORIA COLLEGE MAIN ST WEST TOWNSEND MASS USA	B A 4 VI 2 0477	SIMMONS RICHMOND D 3511 PEEL ST MTL BLIP RD ST GEORGES BERMUDA	B SC 2 VI 4 4777
SILVER STEPHEN DAVID 5820 MCSHANE MONTREAL QUE	B COM 3 RE 7 2960	SIMMS JEAN T R 420 MT STEPHEN AVE MTL 154 UNIVERSITY AVE ST JOHNES NFLD	M B W 2 WE 2 6776
SILVERBERG NORMAN 4100 DE LA PELTRIE ST MONTREAL QUE	B SC 1 RE 3 8606	SIMMS SHIRLEY 5878 4TH AVE MTL SIMMS LONG ISLAND BAHAMAS	B N 2 RA 7 3993
SILVERBERG SEYMOUR 2740 DOVER ST APT 19 MONTREAL QUE	MS CM 1 RE 3 7705	SIMON ANDREW 3990 BOWART ST APT 5 MONTREAL 26 QUE	M A 1 RE 8 7894
SILVERMAN JON DAVID 4695 COTE ST CATHERINE MONTREAL QUE	B COM 3 RE 8 7712	SIMON KENNETH ROBERT 3070 GRAHAM BLVD TOWN OF MT ROYAL QUE	B COM 1 RE 7 0320
SILVERMAN MELVIN 686 DAWAR AVE OUTREMONT QUE	B SC 4 CR 7 8945	SIMON RONALD GEORGE 3070 GRAHAM BLVD TOWN OF MT ROYAL QUE	B COM 2 RE 7 0380
SILVERMAN OZIER 5742 MOUNTAIN SIGHTS AVE MONTREAL 29 QUE	B ENG MCH 3 RE 3 1840		

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NAME ADDRESS	COURSE & YEAR TEL. NO.	NAME ADDRESS	COURSE & YEAR TEL. NO.
SIMON WILLIAM G 1507 POCH AVE VERDUN QUE	B A 2 PO 8 5806	SINCLAIR STANLEY 1264 BOIS FRANC BLVD VILLE ST LAURENT QUE	B SC 1 RI 7 7274
SIMON WOLFGANG KARL 2487 VAUQUELIN ST MONTREAL QUE	B SC 1 RA 7 7351	SINDER ALAN ABA 3975 DUPUIS ST APT 12 MONTREAL QUE	M A 1 RE 9 0815
SIMONEAU CHARLES 377 ST GEORGES ST WINDSOR MILLS QUE	B ENG 1	SINGER ABRAHAM 749A DE L EPEE AVE OUTREMONT QUE	B SC 1 CR 3 3043
SIMONS JOHN HERBERT 3851 UNIVERSITY ST MTL 28 LORNE AVE BOX 867 LENNOXVILLE QUE	B ENG EL 4 VI 4 0977	SINGER PHILIP NORTON 4106 KENT AVE MONTREAL QUE	B ENG CIV 4 RE 8 2652
SIMONS MARILYN O ROYAL VICTORIA COLLEGE SOUTHAMPTON EAST BERMUDA	B SC N 2 VI 2 0327	SINGERMAN NAOMI SUSAN 6602 PARKVIEW RD COTE ST LUC QUE	B A 1 HU 6 0370
SIMOONS RUDOLF ALEXANDER 538 MILTON APT 7 MONTREAL QUE	B ENG CIV 5 VI 9 5412	SINGH SANT P 2087 ST LUKE ST APT 16 MONTREAL QUE	M A 1 WE 3 9012
SIMPINS MARY ANN 37 LAKESHORE RD BEACONSFIELD QUE	B SC H EC 1 OX 5 2592	SINIUTE REGINA 153 3RD AVE VILLE LABALLE QUE	PARTIAL AV 8 9141
SIMPSON ALAN WALTER DEPT OF ANAESTHESIA MONTREAL GENERAL HOSP 96 HALLIWICK RD LONDON N 10 ENGLAND	MED DIPL 2	SINKUNAS JOHN JOSEPH 6738 14TH AVE MONTREAL 36 QUE	B SC 3
SIMPSON CAROLYN ELIZABETH ROYAL VICTORIA COLLEGE EDGEWOOD ARNPRIOR ONT	B A 1 VI 9 0993	SINSON DRUCE ANDRE 3851 UNIVERSITY ST MTL PLANTATION EVERTON DOMINICA B W I	B ENG MCH 5 AV 8 8606
SIMPSON JAMES GARY 1559 MCQUEEN ST APT 1 26 ROBERTSON PL ST CATHARINES ONT	B ENG CIV 4	SIPELIS VITOLIS S 940 OSBORNE AVE VERDUN QUE	B ENG CIV 4 PO 7 7559
SIMPSON JEAN H ROYAL VICTORIA COLLEGE 285 LIGHT ST WOODSTOCK ONT	B A 3 VI 2 0334	SIPOS ROBERT LESLIE 8154 DE L EPEE AVE MONTREAL 15 QUE	B ENG 1 CR 2 5959
SIMPSON JEAN MARY 462 WOOD AVE WESTMOUNT QUE	B SC 1 WE 5 1526	SIROIS LOUIS L 4855 HARVARD AVE APT 6 MONTREAL QUE	M ENG 1 HU 4 5902
SIMPSON PATRICIA MAY 150 SUNNYSIDE AVE PTE CLAIRE QUE	2 TCHRS OX 5 9090	SISCO CAROL MELVINA MACDONALD COLLEGE 204 PASSENGER AVE ROCK ISLAND QUE	TCHRS
SIMPSON RONALD GRAHAM 3647 DUROCHER ST APT B 25 20TH AVE SAN FRANCISCO 21 CALIF USA	MD CM 3 VI 2 5669	SISE CHARLES F 54 ABERDEEN AVE WESTMOUNT QUE	B A 2 WE 2 7479
SIMS DAVID LINDLEY 46 CURZON AVE MONTREAL QUE	B ARCH 6 HU 6 7689	SIU KIN SUN DOUGLAS HALL 3851 UNIVERSITY ST MONTREAL QUE	B ENG 2
SIMS WALTER ALEXANDER BOX 824 SACKVILLE N B	M SC 2	SKARLATOVSKA IRENE 1429 STANLEY ST APT 3 MONTREAL 2 QUE	PARTIAL AV 8 8742
SIMSER RAY G 2039 MCILL COLLEGE AVE APT 38 MTL 1422 MOODIE ST FORT WILLIAM ONT	B ED P ED 3	SKEITH MARY ELIZABETH 3492 PEEL ST MTL NEW DAYTON ALTA	M L S 1 VI 2 7362
SINCLAIR BRIAN JAMES 902 OAK AVE ST LAMBERT QUE	B SC 1 OR 1 6597	SKELTON RAMA LAWRENCE 7460 QUERBES AVE APT 6 135 LAVAL ST P O BOX 633 SAIE COMEAU QUE	B ENG MCH 4
SINCLAIR DIANE LOUISE 2855 L HEUREUX ST VILLE ST LAURENT QUE	B A 3 RI 7 3250	SKEPASTS ALEXANDER V APT B 15 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	M SC 2
SINCLAIR HEATHER ANNE ROYAL VICTORIA COLLEGE 14 HEATH RD HAMPSHIRE QUE	B SC P OT 4	SKILLINGS JAMES WILLIAM 3481 FOREST HILL AVE MTL WHITEHALL RD AMESBURY MASS USA	D D S 4 RE 9 6906
SINCLAIR PETER THOMAS 628 MURRAY HILL WESTMOUNT QUE	B ENG EL 3 HU 4 3801	SKILLMAN GEORGE E 3628 LORNE CREE APT 1 2233 ARTHUR AVE LAKEWOOD 7 OHIO USA	B SC 1 VI 2 2313
		SKINNER DOUGLAS A 49 ST JOHN B RD PTE CLAIRE QUE	B ENG 2 OX 5 3424

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NAME ADDRESS	COURSE & YEAR TEL. NO.	NAME ADDRESS	COURSE & YEAR TEL. NO.
SKINNER G BERNARD 3551 VENDOME AVE MONTREAL QUE	DEE DIPL 4 HU 8 4612	SMITH ANN FRANCES ALICE MACDONALD COLLEGE 144 STOURNAY AVE ST LAMBERT QUE	2 TCHRS 1 OR 1 3098
SKINNER JAMES MAXWELL R R R 5 WIARTON ONT	M A 2	SMITH BARBARA C 4360 MAYFAIR AVE MONTREAL QUE	2 TCHRS 2 HU 1 4908
SKINNER MARGARET MACDONALD COLLEGE 1600 DOMINION AVE SHERBROOKE QUE	2 TCHRS 8	SMITH BRIAN DAVID 1441 DRUMMOND ST MTL 65 PRINCE ST HUNTINGDON QUE	B ED 3
SKINNER TECKLE M BRITAIN MALL 35 AGRA ST ST JAMES TRINIDAD T W I	B SC AGR 8	SMITH BRIAN MORRISON 3851 UNIVERSITY ST MTL 44 SEGUNDO RINCON DORADO TORREMOLINOS MALAGA SPAIN	B A 3 VI 4 6968
SKOLNIK BARRY RALPH 4841 PLAMONDON AVE MONTREAL QUE	B ENG 1 RE 7 5474	SMITH BRIAN NELSON 20653 LAKESHORE RD BAIE D'URFEE QUE	B COM 4
SKRIPKA ONEVIEVE B 6525 18TH AVE MONTREAL 36 QUE	B A 1 RA 5 7265	SMITH BRUCE MELVIN BOX 446 ROSEMERE QUE	B A 1
SKYFECK THOMAS J 4901 MAYFAIR AVE MTL 171 CHICOMANSETT VILLAGE CHICOPEE MASS USA	D D S 1	SMITH BRUCE TAYLOR 2860 DARLINGTON PL APT 3 FORT COVINGTON NEW YORK N Y USA	MD CM 4 RE 9 2069
SLACK MARGARET G 3600 UNIVERSITY ST MTL 55 MONTGOMERY BLVD POINT PLEASANT KINGSTON ONT	M B W 1	SMITH DAVID C 140 SPRINGFIELD AVE GREENFIELD PARK QUE	M A 2 OR 1 9835
SLAPACK FRAYDA NAOMI 5562 GLENCREST RD COTE ST LUC QUE	B A 1 HU 8 5560	SMITH DAVID EDGAR 3491 CONNAUGHT AVE MONTREAL QUE	B SC 2 HU 6 8524
SLATKOFF ROBERT LYON 3097 THE BOULEVARD MONTREAL QUE	B SC 4 WE 7 8356	SMITH DAVID ROYCE 4370 KENSINGTON AVE MONTREAL QUE	B SC 4 HU 8 6053
SLIESIN AVIVA 4861 VICTORIA AVE MONTREAL QUE	B A 1 HU 4 1561	SMITH DONALD A BOX 152 MACDONALD COLLEGE POWELL P E I	B SC AGR 4
SLOAN KENNETH F 4352 ST ANTOINE ST MONTREAL 30 QUE	B ENG EL 8	SMITH DONALD MACDONALD COLLEGE R R 3 ORMSTOWN QUE	B SC AGR 1
SLOMAN LEON 4810A ISABELLA MONTREAL QUE	MED DIPL 3 RE 9 6465	SMITH EDGAR NELSON 3464 WALKLEY AVE MONTREAL QUE	B C L 4 HU 6 3122
SLOSARCIK JOHN ANDREW 1636 SANGUINET ST MONTREAL QUE	B ENG MCH 4 AV 8 8708	SMITH ELIZABETH JANET 500 VICTORIA AVE WESTMOUNT QUE	PARTIAL HU 4 4463
SLAJOVIC IRWIN 1500 STANLEY ST APT 623 4217 CARLTON AVE MONTREAL QUE	M SC 2 AV 8 5504 RE 3 8721	SMITH ERIC MORTON 3483 PEEL ST MTL 160 QUEBEC ST SHERBROOKE QUE	B A 2 VI 2 0882
SMALL SHIRLEY A U 3557 HUTCHISON ST MONTREAL QUE	B A 2	SMITH EVAN LAURIER A 258 SHERBROOKE ST W MTL HARBOUR RD WARWICK WEST BERMUDA	B ENG 1 VI 9 0714
SMALL TERENCE RAWSON 5770 COTE ST LUC RD MONTREAL QUE	B ENG 1 HU 8 0419	SMITH FRANK ASTOR 3628 OXENDEN AVE MTL BROOKLYN RIVER RD ST MICHAEL BARBADOS W I	B SC 4 VI 2 1156
SMALLWOOD WYNNE C 3558 LINTON AVE APT 503 MONTREAL QUE	D D S 2 RE 8 2274	SMITH GEOFFREY L 831 WOLSELEY AVE MONTREAL WEST QUE	B ENG EL 3 HU 4 0559
SMART CELINA ELLEN 5594 JEANNE MANCE ST MONTREAL 8 QUE	H S D DIP CR 9 5806	SMITH GEORGE WILLIAM 6403 SEURLING AVE VERBUN QUE	M A 2 PO 6 6152
SMART JOAN LOUISE 21 MOLTON AVE WESTMOUNT QUE	B SC P OT 2	SMITH GORDON SCOTT 10 GRAESIDE PL WESTMOUNT QUE	B A 2 WE 3 3142
SMART SHEILA L LAIRD HALL R R 2 SHAWVILLE QUE	2 TCHRS 8	SMITH GORDON WAINWRIGHT 3563 UNIVERSITY ST APT 25 MONTREAL QUE	M ENG 1 VI 5 4653
SMITH ALLEN ERICIME 12 BRUNET AVE PTE CLAIRE QUE	B COM 1		

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SMITH GRANT KENWOOD 25 45TH AVE LACHINE QUE	PH D 3 ME 7 1643	SMYTH MICHAEL KEVIN 2236 SUNSET RD MTL ORMETOWN QUE	B C L 3 RE 8 3191
SMITH IRVING HAROLD 571 61ST AVE L ABOARD A PLOUFFE QUE	PH D 4 MU 1 1491	SMYTHE ROBERT MARSHALL 4475 CORONATION AVE MONTREAL QUE	B ENG EL 3 MU 6 4666
SMITH IAN E BRITTAIN HALL 122 BLVD VALCARTIER LORETTEVILLE QUE	B SC AGR 2	SMIDER ERIC ARTHUR 3508 UNIVERSITY ST MTL BOX 69 MEAFORD ONT	B D 1 VI 5 4873
SMITH JAMES BRYCE 3471 PEEL ST MTL MIDDLE RD PAGE WEST BERMUDA	B COM 1 VI 5 6491	SNOW CHARLES R BRITTAIN HALL 12 AURORA AVE PTE CLAIRE QUE	B SC AGR 2
SMITH KARL LEROY 4096 HARTON AVE MTL 1508 PRINCESS ST CORNWALL ONT	B ENG 2 HU 1 8608	SO WAI CHEONG 3517 HUTCHISON ST APT 3 MTL 1144 WATERLOO RD 1ST FL KOWLOON HONG KONG	B ENG AM 4 VI 9 0109
SMITH LARRY ALLAN 6255 WESTBURY AVE MONTREAL QUE	B ENG 1 RE 7 7049	SOCOLOW BARBARA ANN 5592 DUROCHER AVE OUTREMONT QUE	B SC POT 2
SMITH MARILYN B 239 BROOKFIELD AVE TOWN OF MT ROYAL QUE	DIP ASSOC 3	SODA ANGELINA B 6707 BORDEAUX MONTREAL QUE	B A 1 RA 8 2439
SMITH MARILYN WINIFRED MACDONALD COLLEGE 188 6TH AVE VILLE LABALLE QUE	2 TCHRS 1	SODHI HARBAJAN SINGH 4808 LACOMBE AVE MONTREAL QUE	PH D 3 RE 3 4510
SMITH PETER WILLIAM E 470 PRINCE ARTHUR ST APT 2 MONTREAL QUE	M SC 1 VI 5 3777	SOEDARMADJI TOETY B 3474 MCTAVISH ST MTL DJALAN LANGSAT BLOK D2 KESAJORAN BARU DJAKARTA INDONESIA	GRAD DIP 2 VI 2 0805
SMITH RAYMOND MACDONALD 4650 HINGSTON AVE MONTREAL 28 QUE	B SC 2 HU 1 2951	SOHMER DAVID H 2700 SOISSONS AVE MONTREAL QUE	B COM 2 RE 7 6140
SMITH RICHARD B S 510 PINE AVE W MTL JOCelyn VILLA DUNDALK IRELAND	MED DIPL 3 AV 8 4065	SOIFERMAN GERALD ELLIOT 5608 RAND AVE COTE ST LUC QUE	B ARCH 3 HU 8 6386
SMITH ROBERT L 633 GEORGE V AVE LACHINE QUE	B ED 3 ME 7 1603	SOIFERMAN MERLE 2946 SOISSONS AVE MONTREAL QUE	B A 2 RE 7 0748
SMITH ROBERT LAWSON 440 MAPLE AVE PEMBROKE ONT	MED DIPL 3	SOIFFER PHILIP IRVINE 3098 GOVER APT 7 MONTREAL QUE	B ENG EL 4 RE 8 1933
SMITH RUSSELL D MACDONALD COLLEGE SHAWVILLE QUE	B SC AGR 1	SOKOLOFF SHEILA 23 LEGAUT ST STE ANNE DE BELLEVUE QUE 4910 KENT AVE MONTREAL QUE	3 TCHRS
SMITH SANDRA GERALD 1227 SHERBROOKE ST W APT 34 MONTREAL QUE	B A 3 VI 9 6633	SOKOLOWSKI ISABEL 4235 DECARIE BLVD APT 6 MONTREAL QUE	B SC 3
SMITH STUART DURNFORD 338 METCALFE AVE WESTMOUNT QUE	B ENG PHY 3 WE 3 4535	SOLHAUG KJELL 717 UPPER LANSDOWNE WESTMOUNT QUE	D D S 2 HU 9 6606
SMITH STUART L 4561 MELROSE AVE MONTREAL QUE	MD CM 2 HU 6 9398	SOLOMON EDWARD B 4047 KENT AVE MONTREAL QUE	M A 2 RE 8 1918
SMITH THOMAS HOWARD APT C 10 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	PH D 2	SOLROM LESLIE 5850 DECELLES PL APT 11 MONTREAL QUE	MED DIPL 3 RE 9 3979
SMOLLETT FREDERICK L A BRITTAIN HALL NEW CARLISLE QUE	3 TCHRS	SOLTENDIECK HERMANN F 787 25TH AVE LACHINE QUE	B ENG MI 5 ME 7 7344
SMOLY JENNIE MARY ROYAL VICTORIA COLLEGE 702 4TH AVE VAL D OR QUE	B SC 3 VI 2 0634	SOLTES EDWARD JOHN 182 FORTIN PONT VIAU QUE	B SC 3 MO 9 5496
SMOLY SALLY ANN LAIRD HALL 702 4TH AVE VAL D OR QUE	2 TCHRS 1	SOLTICE KATHLEEN JANE 3515 DUROCHER ST MONTREAL QUE	B L S 1 VI 5 0878
SMYTH DAVID RICHARD 6363 12TH AVE MONTREAL 36 QUE	B ENG EL 3 RA 7 6037	SOLTYE JOHN MARTIN 211 LETCHER ST SAULT STE MARIE ONT	B ENG 1

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BOLWAY DAVID JOSEPH 3569 ST FAMILLE ST MTL 95 TOUR DU LAC ST STE AGATHE QUE	B A 2 VI 2 2896	BOWERS REBECCA DEAN ROYAL VICTORIA COLLEGE 236 MIDMAN PK SEBASTIAN HARBOR MICHIGAN USA	B A 2
BOMARSALL MILDRED C M ROYAL VICTORIA COLLEGE P O BOX 57 HAMILTON BERMUDA	B SC 3 VI 2 0265	SPARLING HILDA MARY BOX 123 CAMPELL S BAY QUE	2 TCHRS
BOMARSALL YVONNE DOREEN ROYAL VICTORIA COLLEGE P O BOX 57 HAMILTON BERMUDA	B SC 3 VI 2 0334	SPECTOR BARBARA ANN 624 CARLETON AVE MONTREAL QUE	B A 2 MU 8 3390
BOMERVILLE ANN E STEWART HALL BOX 496 RICHMOND QUE	B ED 2	SPECTOR CHARLES LOUIS 5236 MUSSET AVE MONTREAL QUE	B A 3 MU 1 3707
BOMMER FELIX VERDUN PROTESTANT HOSP 6875 LASALLE BLVD VERDUN QUE	MED DIP 2	SPECTOR LIONEL B 478 BROOKFIELD AVE TOWN OF MT ROYAL QUE	B ED P ED 3 RE 8 9145
BOMMERFRIEND FRANCES 486 VICTORIA AVE WESTMOUNT QUE	B SC 1 MU 1 6853	SPECTOR ROSLYN MARLENE 2639 BOISSONS AVE MONTREAL QUE	B SC 4 RE 7 6471
BOMOSVI THOMAS R 3002 BRIGHTON AVE MONTREAL QUE	B SC 4 RE 9 2873	SPEDDING ISABELLA 3290 GOYER ST APT 32 MTL 12 FRONT ST SHERBURN HILL CO DURHAM ENGLAND	GRAD DIP 1 RE 3 8473
BOMORJAI RAJMUUND L 3515 SMITH ST APT 41A MONTREAL QUE	B SC 4	SPEISMAN DONNA GAIL 2205 KILDARE RD TOWN OF MT ROYAL QUE	B SC 1 RE 3 9120
BONAKUL M R PRIYA 3449 PEEL ST MTL 28 SAI NAM TIP RD BANGKOK THAILAND	M SC 1 VI 4 0722	SPENCE DOROTHY 7094 ROYER ST MONTREAL 10 QUE	M L S 2 CR 1 6533
BON CRISTAL SUIT CHING ROYAL VICTORIA COLLEGE 251 CIRCULAR RD KUALA LUMPUR MALAYA	B SC 2 VI 2 0847	SPENCE ELEANOR J STEWART HALL 602 ALGONQUIN AVE TOWN OF MT ROYAL QUE	P E DIP 2
BON FREDDIE WAM 1840 SHERBROOKE ST W MTL BOX 1 BRUCE AVE & 8TH ST MANAIMO B C	D D S 4 WE 5 0071	SPENCE IAN OLIVER 1441 DRUMMOND ST MTL 11624 79TH AVE EDMONTON ALTA	M S W 1
BONMET LILIAN 863 ST CHARLES RD GREENFIELD PARK QUE	B A 3 OR 1 0593	SPENCER JOHN HEDLEY 3504 PARK AVE APT 7 MONTREAL QUE	PH D 4 VI 5 7624
BONBAAR KETO 110 SHERBROOKE ST BEACONFIELD QUE	B ENG AM 4 OX 5 6147	SPENCER MAUREEN LOUISE STEWART HALL 4990 WESTMORE MONTREAL 29 QUE	B ED 1
BOPKO JOHN 6575 36TH AVE MONTREAL 36 QUE	B ENG MCH 4 RA 7 5219	SPERLICH KLAUS WALTER 5724 MCMURRAY AVE MONTREAL QUE	B ENG EL 3 MU 8 4960
BOPKO MICHAEL 6575 36TH AVE MONTREAL 36 QUE	B ENG MET 5 RA 7 5219	SPERLICH MARIANNE 3724 MCMURRAY AVE COTE ST LUC QUE	B A 1 MU 8 4960
BORELLA VITTORIO 7655 GARNIER ST APT 5 MONTREAL QUE	B ENG 2 RA 9 1670	SPEVACK LOIS CAPLAN 3665 RIDGEWOOD AVE APT 206 MONTREAL QUE	B A 4 RE 9 1313
BORG SUSAN ANN 5195 CONNAUGHT AVE N MONTREAL 29 QUE	3 TCHRS MU 8 7204	SPINNER IRVING 4505 ST URBAIN ST MONTREAL 14 QUE	B ENG EL 3 VI 4 5783
BOUTEYNS ANDRE RAYMOND 350 EMERY ST MONTREAL QUE	B SC 3 VI 5 9858	SPINNER NAHUM 4505 ST URBAIN ST MONTREAL 14 QUE	MD CM 1 VI 4 5783
BOUTH ASTLEY SAMUEL 525 PRINCE ARTHUR W MTL CHRISTIANA JAMAICA W I	B A 4 VI 4 0017	SPIRA ALEXANDER 631 DE L'EPÉE AVE OUTREMONT QUE	B SC 3 OR 9 8306
BOUTHAM DOROTHY GILL 3455 COTE DES NEIGES RD APT 404 MTL 461 SIERRA VISTA DR TUCSON ARIZONA USA	B SC N WE 7 5792	SPOONAMORE RICHARD 1581 MCGREGOR ST APT 15 MONTREAL 2 QUE	B ENG MI 3 AV 8 5136
BOUTHAM PETER YOUNG 4676 HUTCHISON ST MONTREAL QUE	B SC 4 CR 6 3102	SPOONER GUY A 548 PRINCE ARTHUR ST W RADIO HOTEL KAPUSKASING ONT	B ENG 2 VI 2 0877
		SPOTTON JOHN ANSON 3806 UNIVERSITY ST MTL 26 PRINCETON RD TORONTO 16 QUE	B SC 3 VI 4 0624

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SPRITZER LOUIS LEOPOLD 3404 KINGSTON AVE APT 42 MONTREAL QUE	MUS B 2 MU 9 2019	STANLEY JENNIFER M 5225 RANDALL AVE MONTREAL QUE	B A 4 MU 4 0956
SPROULE RAYMOND NELSON 111 EVERGREEN DR BEACONSFIELD QUE	B SC 3 OX 5 9888	STANLEY PAUL DAVID MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	B SC AGR 3
SPURMANIS JANIS A 8106 ARCADIAN RD COTE ST LUC QUE	B ENG 2 MU 1 4948	STANLEY SHEILA MIRIAM 66 LUCERNE AVE VALOIS QUE	B TCHRS 1 OX 7 0484
SQUIRES JAMES W 456 PINE AVE W MTL NEW LONDON N H USA	MD CM 1 VI 5 1557	STARKEY THOMAS A 465 COTE ST ANTOINE RD WESTMOUNT QUE	B SC 2 MU 1 8454
SQUIRES MARY ANNE STEWART HALL 263 LOCKHART AVE TOWN OF MT ROYAL QUE	B ED 2	STAROSTA IRENE 2685 GOVER ST APT 19 APT 19 MONTREAL QUE	B A 3 RE 9 9645
SRICHANDRASHAND LAMOM 3478 PEEL ST MTL BANGKOK THAILAND	B N 2 VI 4 7998	STATE DE CHANTAL RAYMOND 8 RUE DES CARRIERES FORT CHAMSLY QUE	B ENG MCH 5 OL 8 1324
SRIKANTAN BANGALORE 539 PRINCE ARTHUR ST APT 6 MONTREAL QUE	PARTIAL	STATTNER MAXINE INA 531 ROCKLAND AVE OUREMONT QUE	B A 4 GR 9 1030
ST AMOUR MAURICE MASSON QUE	B ENG CIV 5	STAVERT WILLIAM EWART 3250 CEDAR AVE WESTMOUNT QUE	B CL 4 WE 2 5930
ST JEAN RITA V 201 STRATHMORE BLVD STRATHMORE QUE	L MUS 3 ME 1 1497	STECK WARREN FRANKLIN DOUGLAS HALL 1543 ARYLE ST REGINA SASK	B ENG CH 5 VI 5 0934
ST LAURENT JACQUES J C 456 PINE AVE W APT 3 MTL 22 PATTERSON CAMPELTON N B	MED DIPL 1 VI 2 7617	STEED GUY PERCY FREDERICK 14 NORTHCOKE RD HAMPSTEAD WHITE LODGE BRIZAY PK SINGAPORE	B A 3 MU 6 6093
ST ONGE ETIENNE A 3516 SHUTER ST APT 7 MTL ST ETIENNE DES CRES CO ST MAURICE QUE	B ENG EL 4	STEELE CHARLES HEDLEY R 4231 8TH ST L ABOARD A PLOUFFE QUE	B ENG 1 MU 1 8501
STACHIEWICZ EVA TERESA 83 CHESTERFIELD AVE WESTMOUNT QUE	PH D 2 MU 1 6674	STEELE VLADISLAVA JULIE 1908 LINCOLN AVE APT 53 MTL 8940 LUNSDEN ST MONTREAL 11 QUE	PH D 2
STAHL FREDERICK ANDREW 3473 UNIVERSITY ST MONTREAL QUE	B D 2 VI 9 1791	STEELE WILLIAM G BRITAIN HALL R R 1 ALMONT ONT	B SC AGR 2
STAHLBERG EDWARD A 565 ARDYLE AVE MONTREAL QUE	B ENG PHY 3 WE 3 6396	STEEN DOUGLAS GEORGE DOUGLAS HALL 503 LEWIN PK LANCASTER N B	B ENG 1
STAM YETTA 19 GARDEN CITY STE ANNE DE BELLEVUE QUE 5408 ESPLANADE AVE MONTREAL QUE	3 TCHRS	STEER BEVERLEY RUTH 146 53RD AVE LACHINE QUE	B TCHRS 1 ME 7 8819
STAMMER CHAIM 3559 UNIVERSITY ST MONTREAL QUE	PH D 3	STEEVES WILLARD M C 1320 LOMBARD CRES APT 9 TOWN OF MT ROYAL QUE	B CL 3 RE 1 1506
STAMMER FELICIA 3559 UNIVERSITY ST MONTREAL QUE	M S W 1	STEFANI FERENC BRITAIN HALL MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	B SC AGR 1
STAMMER HANS KARL 3105 VAN HORNE AVE APT 14 MONTREAL QUE	B ENG COM 5 RE 9 0422	STEFFEE ARTHUR D 3475 RIDGEWOOD AVE APT 104 MONTREAL QUE	MD CM 4 RE 8 6519
STAMOS BONNIE 554 ROCKLAND AVE OUREMONT QUE	B SC P OT 3 GR 1 2814	STEFH CHARLES T 475 PINE AVE W MTL SECOND & PAYETTE STS BOX 118 HILLER PA USA	D D S 2 VI 4 4270
STANGER MICHAEL ARTHUR 4031 COTE DES NEIGES RD MONTREAL 25 QUE	B SC 1 WE 5 8861	STEIGMANN AXEL JOHN 1445 PAINTER CIRCLE APT 204 MONTREAL QUE	PH D 4 RI 4 2728
STANFORTH DOUGLAS M MACDONALD COLLEGE ARUNDEL QUE	B ED P ED 2	STEIN ALAN M 5042 PONSARD AVE MONTREAL 29 QUE	B CL 2 MU 6 9333
STANISLAWSKI MARC 5324 CUMBERLAND AVE MONTREAL QUE	PH D 2 MU 8 2774	STEIN BENJAMIN 2860 DARLINGTON PL APT 15 MONTREAL QUE	M S W 2 RE 3 1614
STANKOVITS CHARLES I 3543 LORNE AVE MONTREAL QUE	B ENG COM 5 VI 9 9892		

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NAME ADDRESS	COURSE & YEAR TEL. NO.	NAME ADDRESS	COURSE & YEAR TEL. NO.
STEIN BORIS 3528 LORNE AVE APT 2 MONTREAL QUE	M B W 1 AV 8 7590	STERLIN CARLO 1025 PINE AVE W MTL 1ST AVE ST LOUIS ROI DE FRANCE PORT AU PRINCE HAITI	MED DIPL 1
STEIN BORIS PETER 4230 MELROSE AVE MONTREAL QUE	B COM 1 HU 6 2455	STERN ANTHONY M 4687 WESTMOUNT AVE WESTMOUNT QUE	MD CM 2 HU 9 5445
STEIN JUDITH PEARL 60 CRANVILLE RD HAMPSHIRE QUE	B SC 1 HU 4 7410	STERN M STEPHANIE 3238 THE BOULEVARD WESTMOUNT QUE	B L S 1 WE 5 5856
STEIN MARTHA LINDA 4495 CIRCLE RD MONTREAL QUE	B A 1 HU 1 3192	STERNTHAL EDWARD 65 PAGNUELO AVE MONTREAL B QUE	B SC 4 CR 9 3507
STEIN MICHAEL BERNARD 5042 PONSARD AVE MONTREAL 29 QUE	B A 3 HU 6 9415	STERNTHAL HYMAN SOLOMON 6034 HUTCHISON ST APT 3 OUTREMONT QUE	B SC 4 CR 2 0953
STEIN MILDRED L 3860 KENT AVE MONTREAL QUE	B A 2 RE 8 8817	STERNTHAL MICHAEL HARVEY 5585 STIRLING AVE MONTREAL QUE	B ENG 1 RE 8 4372
STEINBERG BLEMA S 5678 MACDONALD AVE MONTREAL QUE	PH D 4 HU 1 6976	STEVENS DONNA CLARE ROYAL VICTORIA COLLEGE BOX 636 STETTNER ALTA	B E 2 VI 9 0120
STEINBERG ELEANOR S 4890 MIRA RD MONTREAL QUE	B A 2 HU 6 4155	STEVENSON CHARLES HARRY R 53 BELMONT AVE VALOIS QUE	B ENG EL 4 OM 7 1429
STEINBERG HENRY MURRAY 4970 ST KEVIN AVE APT 17 MONTREAL QUE	B C L 3 RE 8 4627	STEVENSON IAN GARTH 4022 OXFORD AVE MONTREAL QUE	B A 1 HU 4 0833
STEINBERG HYMAN LEONARD 4832 MACKENZIE MONTREAL QUE	B SC 2 RE 8 5361	STEVENSON JUEL ANNE MACDONALD COLLEGE 4572 CORONATION AVE MONTREAL QUE	2 TCHRS 2
STEINBERG IRWIN 4890 MIRA RD MONTREAL QUE	B COM 4 HU 6 4155	STEVENSON LOUISE ANN 275 39TH AVE LACHINE QUE	2 TCHRS 1 ME 7 0383
STEINBERG JUNE SANDRA 5177 WESTBURY AVE MONTREAL QUE	B A 4 RE 7 3855	STEVENSON PETER W 21 HUDSON AVE TOWN OF MT ROYAL QUE	B SC 1 RE 8 6117
STEINDLER CHARLES HENRY 2166 ST LUKE ST MONTREAL QUE	3 TCHRS	STEVENSON ROBERT W 530 MOUNT PLEASANT AVE WESTMOUNT QUE	B D 2 WE 2 7577
STEINER HAROLD AUSTIN 1401 CANORA RD TOWN OF MT ROYAL QUE	M SC 1 RE 9 4942	STEVENSON STELLA C MACDONALD COLLEGE BISHOPTON QUE	B SC H EC 1
STEINHOUSE JOYCE ELAINE 3908 PLAMONDON AVE APT 8 MONTREAL QUE	B A 2 RE 7 8778	STEVENSON STEPHANIE LEE 1009 SHERBROOKE ST W MTL 442 GROSVENOR ST LONDON ONT	B 2
STEINMAN RALPH MARVIN 151 DUFFERIN RD MTL 1427 PORTLAND AVE SHERBROOKE QUE	B SC 1 HU 8 4182	STEVENSON WILLIAM F BRITAIN HALL FRANKLIN CENTRE QUE	B SC AGR 2
STEINMETZ NICOLAS 3546 DUROCHER ST APT 16 MTL BOX 102 WEST BENTWOOD LONG ISLAND N Y USA	MD CM 1 VI 9 2083	STEWART ANN KATHLEEN 41 PACIFIC AVE SENEVILLE QUE	2 TCHRS 1
STELLOS APOSTOLOS 3504 PARK AVE APT 28 MONTREAL QUE	MED DIPL 3 VI 4 8930	STEWART DAVID R 3508 UNIVERSITY ST MTL 1319 WELLINGTON ST OTTAWA ONT	B B 2 VI 5 4873
STENDER CHRISTINE E J 6955 FIELDING AVE APT 701 MONTREAL QUE	B C L 4 HU 9 1695	STEWART GEOFFREY EDWARD BRITAIN HALL 40 BURTON RD ASHBY DE LA ZOUCH LEKESTERSHIRE ENGLAND	B SC EOR 2
STEPHENS DENNIS NOYE M 538 PRINCE ARTHUR ST W 17 LOVE ST KAN 12 JAMAICA W I	B SC 1	STEWART HUGH D 1455 DRUMMOND ST APT 309 8 KESLE RD OXFORD ENGLAND	B A 3 VI 5 7483
STEPHENS PETER JOHN T 4403 GIRONARD AVE MONTREAL QUE	B SC 3 HU 9 4123	STEWART MARION ELIZABETH MACDONALD COLLEGE 8 RENNIE AVE MONTREAL WEST QUE	B SC H EC 1
STEPHENS SIDNEY ALLAN 34 MERTON CRES HAMPSHIRE QUE	B ENG MCH 3 HU 6 9008	STEWART WILLIAM BEVERLEY BRITAIN HALL 110 GOODERICH ST DALHOUSIE N S	B SC AGR 4

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STEYN WILLEM LODEWIGUS 3517 HUTCHISON ST MONTREAL QUE	PARTIAL AV 8 5010	STONE SHEILA MCLEOD 4545 TRENHOLME AVE MONTREAL QUE	B A 3 HU 6 3935
STICKLER ROWENA MARGARET 53A MONTEE STE MARIE EYE ANNE DE BELLEVUE QUE CHELSEA QUE	H S D DIP	STONEHEWER JOHN 12 KARIN AVE PTE CLAIRE QUE	M ENG 1 OX 7 3947
STIKEMAN VIRGINIA HEWARD 48 ABERDEEN AVE WESTMOUNT QUE	B A 1 WE 5 9300	STONELY MARTIN MCDONALD RR 2 CHATEAUGUAY QUE	B ENG 2 OX 2 0756
STILES DONALD ALFORD 3508 UNIVERSITY ST MTL 877 LAFAYETTE BLVD MONTREAL SOUTH 23 QUE	B D 3 VI 5 4873	STONES SIMON MICHAEL DOUGLAS HALL PAGET PHARMACY APT MIDDLE RD PAGET BERMUDA	B SC 1
STILMAN CHARLOTTE 4949 GROSVENOR AVE MONTREAL QUE	H S D DIP RE 3 4792	STOREY CHRISTIAN GERVASE WILSON HALL C O TEXACO TRINIDAD INC POINTE A PIERRE TRINIDAD T W I	B SC 1 VI 4 0624
STINNES MATHIAS 180 BEVERLY AVE MONTREAL 16 QUE	B ENG 2 RE 7 3258	STORR CATHERINE P 4150 HINGSTON AVE MONTREAL 28 QUE	M SC 2 HU 6 6121
STINSON FRANGA BERYL 1 PERRAULT AVE STE ANNE DE BELLEVUE QUE	M A 2	STOTT JOHN DAVID 25 45TH AVE APT 14 LACHINE QUE	B SC 4 ME 7 6206
STIRZAKER COLIN VICTOR 2050 CHOMEDY ST APT 6 718 ANDERSON AVE S PORT ALBERNI B C	D D S 2 WE 3 6481	STOVEL JOSEPH BRUCE 494 WOOD AVE WESTMOUNT QUE	B A 1 WE 7 1225
STOBIE JANET ANNE E ROYAL VICTORIA COLLEGE 8 CLUNY AVE TORONTO 5 ONT	B A 4 VI 2 0477	STRACEY JOHN SIMON 1003 MACNAUGHTON RD TOWN OF MT ROYAL QUE	B ENG CIV 4 RE 8 0347
STOCKHAUSEN JOSEPH PAUL 2045 BISHOP ST MTL 32 NORBROOK RD CONSTANT SPRING JAMAICA B W I	B ENG CIV 5	STRACHAN RICHARD A MACDONALD COLLEGE THE LAKES CLIFTON BEDFORDSHIRE ENGLAND	B SC AGR 3
STOCKS ROBERT JAMES 5201 SHERBROOKE ST W APT 16 MONTREAL QUE	B C L 4 HU 8 5289	STRAIN MARGARET ROSE 7345 MAYNARD ST TOWN OF MT ROYAL QUE	B SC 4 RE 3 3062
STOCKWELL HENRY PERKINS 3508 UNIVERSITY ST MTL 594 DRIVEWAY OTTAWA ONT	MD CM 3	STRAKA W STEFAN 4000 BOUCHETTE APT 28 MONTREAL QUE	M A 1 RE 9 6450
STOLAR STANLEY HAROLD 6030 COTE ST LUC RD APT 109 MONTREAL QUE	MED DIPL HU 8 4035	STRAKER NORMAN L 373 LAZARD AVE TOWN OF MT ROYAL QUE	B A 2 RE 7 3541
STOLECKI LEONARD ARTHUR 3495 DECARIE BLVD APT 6 MONTREAL QUE	B ENG 2 HU 8 6637	STRASSBERG ZENO 3506 UNIVERSITY ST MTL 66 CASCADE RD ST ANNE TRINIDAD W I	B SC 4 VI 4 0624
STOLAR FRANCES EDNA 4641 ESPLANADE AVE MONTREAL QUE	B SC 2 VI 9 7804	STRATTON ROBERT HENRY WILSON HALL R R 2 AMHERSTBURG ONT	B ENG 1
STOLLAR WYMIE 5578 WAVERLEY ST MONTREAL QUE	B SC 1 CR 2 6734	STRAUSS HAROLD CARL 5575 KING EDWARD AVE COTE ST LUC QUE	B SC 4 HU 4 7054
STOLLAR MAX 5578 WAVERLEY ST MONTREAL QUE	B ENG MCH CR 2 6734	STRICKLAND RICHARD C 3466 JEANNE MANCE ST APT 18 MONTREAL QUE	B A 2
STOLOVITCH HAROLD DEBERT 5590 VICTORIA AVE APT 11 MONTREAL 26 QUE	B ED 3 RE 3 9155	STRICKS JOHN 456 PINE AVE APT A MTL 21 STODDARD PL BROOKLYN 25 NEW YORK USA	B SC 1 VI 9 7268
STONE CHARMINE C LAIRD HALL 2365 MARIETTE AVE MONTREAL 28 QUE	B ED 2	STRIKE EILEEN DORIS 2384 RUSHBROOKE ST MONTREAL QUE	B N 2 WE 5 5054
STONE EARL MURRAY 3626 OXENDEN AVE MONTREAL QUE	MED DIPL AV 8 8090	STROHL ESTELLE ESTHER 735 HARTLAND AVE MONTREAL QUE	B SC 2 RE 8 9308
STONE HEATHER ALEXANDRA 4545 TRENHOLME AVE MONTREAL QUE	B A 1 HU 6 3935	STROM BARBARA ALEXANDRA WOMENS RESIDENCE MCDONALD COLLEGE R R 4 GRANBY QUE	2 TCHRS 1
STONE MALCOLM STEWART 4547 HAMPTON AVE MONTREAL 28 QUE	B COM 4 HU 1 1986		

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STROMANIS EVA ROYAL VICTORIA COLLEGE 272 MANVILLE AVE EAST ASBESTOS QUE	B SC 1 VI 2 0571	SUMBULIAN HAYKAZOUN 3459 DRUMMOND ST APT 45 1MM PAWZAWAJIAN PRES RUE NAHR CORNICHE SEYROUT LILAN	B C L 3 VI 4 0653
STROMBERG DAVID 5814 CLANRINALD AVE MONTREAL QUE	B COM 3 RE 3 0408	SUMNERBY JOHN HALL 5215 VICTORIA AVE APT 3 MONTREAL QUE	MED DIPL 3 RE 7 8863
STROMBERG EDWARD ROBERT BRITTAIN HALL 1441 104TH ST NORTH BATTLEFORD SASK	2 TCHRS 1	SUMNER DARLENE MARY 185 MARINA CIRCLE PTE CLAIRE QUE	B SC 2 OX 5 6022
STROTHER PETER RICHARD A 8 COOLBREEZE AVE LAKESIDE QUE	B ENG 1 OX 5 5119	SUN YUK LUN KINGSLEY 3575 SMUTER ST MTL 19 AUSTIN AVE 2ND FL HONG KONG	B SC 3
STRUSSE PATRICIA J 1000 LAPOINTE ST VILLE ST LAURENT QUE	B SC 2 RI 4 1361	SUNY ISMAIL 3873 LORNE AVE APT 6 MTL 23 DUALAN DJENGGALA 11 KEBAJARAN BARU DJAKARTA INDONESIA	M C L 2 VI 5 1609
STUART HEATHER ELIZABETH ROYAL VICTORIA COLLEGE 2023 RIVERSIDE DR RIVERSIDE ONT	B A 1 VI 2 0597	SUPERSTEIN HOWARD RONOLD 5133 ST URBAIN ST MONTREAL QUE	B COM 3 CR 2 0792
STUART JEAN LOUISE 880 53RD AVE LACHINE QUE	2 TCHRS 1 ME 7 4918	SUSSER NORMA MACDONALD COLLEGE 1006 JEAN TALON ST W MONTREAL 15 QUE	B SC AGR 1
STUART ROBERT A G 8215 DOVER RD TOWN OF MT ROYAL QUE	B ENG 1 RE 9 1158	SUSSMAN MARTIN ABRAHAM 5480 LAVOIE AVE APT 11 MONTREAL QUE	M S D DIP RE 3 3524
STUCHBERY IAN 2039 MCILL COLLEGE AVE APT 38 MONTREAL 2 QUE	B D 3 VI 9 1791	SUTCLIFFE JOAN MARGARET 3449 PEEL ST MTL 4240 CEDAR HILL RD VICTORIA B C	B N 2 VI 4 0908
STUTMAN MARVIN 4810 ISABELLA AVE MONTREAL QUE	B SC 1 RE 7 8419	SUTHERLAND EVERETT MIRAM 328 ST JACQUES ST LONGUEVILLE QUE BOX 947 WOODSTOCK N S	D D S 4 OR 4 6192
SUE WAI KWONG DAVID 3473 UNIVERSITY ST MTL 144 150 THIRD ST 1ST FL SAIYINGPUN HONG KONG	B SC 2 VI 4 0817	SUTHERLAND ROBERT BRUCE 3440 SMUTER ST MTL 4 REBECCA AVE FLORIDA TRANSVAAL SOUTH AFRICA	M ENG 1
SUFI SOHAN SINGH 2039 UNIVERSITY ST APT 37 MTL SUFIAN P O GAGOMAHAL DISTT AMRITSAR VIA AJNALA PUNJAB INDIA	B ENG CH 3 VI 5 2005	SUTHERLAND SHEANA S 193 MONTENACH ST LONGUEVILLE QUE	B A 2 OR 7 1742
SUGA HARUSI TY 11 ST LUC ST LAVAL DES RAPIDES QUE	B SC 2 MO 9 7010	SUTTO CLAUDE MAURICE 272 QUERBES AVE OUTREMONT QUE	M A 1 CR 9 6678
SUGA LORRAINE AKIKO 11 ST LUC ST LAVAL DES RAPIDES QUE	3 TCHRS MO 9 7010	SUTTON PETER KENNETH 3539 HUTCHISON ST MTL ORMSTOWN QUE	B ENG 1 VI 5 8791
SUGARMAN NORMAN E 595 LANSDOWNE AVE WESTMOUNT QUE	B A 1 MU 6 7341	SUZUKI JOHN MACGREGOR 120 SHERBROOKE ST W APT 19 MTL 8 RATHNELLY AVE TORONTO ONT	B SC 2 VI 5 2600
SUN CHUNG KUEE STE ANNE S HOSPITAL STE ANNE DE BELLEVUE QUE	MED DIPL 1	SUZUKI JUDITH LESLIE V H 3534 LORNE AVE APT 13 MTL 8 RATHNELLY AVE TORONTO ONT	M A 1
SULIKOWSKI DANIEL F 6148 HUTCHISON ST MONTREAL QUE	B ENG 1 OR 1 6792	SVED GEORGE 3075 MAPLEWOOD AVE MONTREAL QUE	B ENG CH 5 RE 3 3061
SULLIVAN DANIEL JOSEPH 4384 MARCIL AVE MONTREAL QUE	B C L 3 MU 4 3243	SVISTUNENKO JURIS 1239 FORT APT 1 MONTREAL QUE	B ENG AM 4 WE 2 2733
SULLIVAN JAMES D 4384 MARCIL AVE MONTREAL QUE	MD CM 2 MU 4 3243	SWALES DAVID WILLIAM 3466 MCTAVISH ST MTL 19 PERRAULT AVE STE ANNE DE BELLEVUE QUE	MD CM 3 AV 8 9533
SULLIVAN JOHN P O DOUGLAS HALL 1036 TYLER ST WENHTECH WASH USA	MD CM 2 VI 5 7849	SWAN JUDITH EDNA MARGARET STEWART HALL 310 GROSVENOR AVE WESTMOUNT QUE	M S D DIP
SULLIVAN WILLIAM ALLAN 6635 MONKLAND AVE MONTREAL 28 QUE	B COM 3 MU 1 4594		
SUMARDJO HANDOKO 3474 MCTAVISH ST APT 3 MONTREAL QUE	B SC 4 VI 2 0805		

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SWEETING SIDNEY THEODORE 5755 HUDSON RD APT 5 MONTREAL QUE	D D S 1 RE 1 1691	SZWARC MARY VIOLETTE 4125 BLUERIDGE CRES APT 10 MONTREAL QUE	MD CM 4 WE 7 8107
SWIFT GRAHAM BOX 93 MACDONALD COLLEGE 20746 LAKESHORE RD BAIE D'URFEE QUE	M SC 2		
SWIFT JOHN ARTHUR A 1005 RUE VANIER VILLE ST LAURENT QUE	B C L 2 RI 7 9445		
SWIFT ROBERT C 466 STRATHCONA AVE WESTMOUNT QUE	B ENG 2 WE 7 4378		
SWIRSKY LILLIAN 2340 LINCOLN AVE APT 15 4120 ISABELLA AVE MONTREAL QUE	B SC 3 WE 7 8478		
SWITZER HELEN ANNE ROYAL VICTORIA COLLEGE BOX 544 SEVEN ISLANDS QUE	B SC M 1 VI 2 0571		
SYEKLOCHA DELFA 5373 A PRINCE OF WALES 2837 PANDORA ST VANCOUVER 6 B C	M SC 1 HU 9 7810		
SYLVAIN GERARD 2620 FRONTENAC ST MONTREAL QUE	M A 1 LA 3 3131		
SYMANEKY ADAM 763 QUERBES AVE APT 6 OUTREMONT QUE	B SC 1 GR 7 4879		
SYME THOMAS DOUGLAS 189 CURZON AVE ST LAMBERT QUE	B ENG EL 3 OR 1 3569		
SYMES ASTON LLOYD BRITTAIN HALL 12 ST JOSEPH AVE KINGSTON 3 JAMAICA W I	B SC AGR 3		
SYMONE MICHAEL WINDSOR 557 QUEEN ELIZABETH RD SALISBURY GRENADA W SOUTHERN RHODESIA	B SC AGR 1		
SYNOPOULOS VOULA 7473 WISEMAN AVE MONTREAL QUE	M S W 2 CR 9 9574		
SYVERTSEN ROSALIND G 456 PINE AVE W APT 8 MTL GREAT HOLLOW HANOVER N H USA	PARTIAL VI 9 3158		
SZABO CHARLES 2980 BEDFORD RD APT 10 MONTREAL QUE	B ARCH 2 RE 3 9618		
SZALAY PAUL JOSEPH 3563 UNIVERSITY ST APT 33 MONTREAL QUE	PH D 3 AV 8 7749		
SZEBIK SHIRLEY RUTH 5336 COOLBROOK AVE MONTREAL QUE	B SC 2 HU 1 8854		
SZEGO PETER 3808 ST KEVIN ST MONTREAL QUE	B SC 3 RE 9 2513		
SZETO LAWRENCE KWOK LAU 3573 LORNE AVE MTL 20 CONNAUGHT RD W HONG KONG	B ARCH 3		
SZIRTES THOMAS 1205 CRESCENT APT 30 MONTREAL QUE	M ENG 3 UN 1 7952		
SZPETGANG PAULETTE 4528 PARK AVE MONTREAL QUE	PARTIAL VI 2 2820		
SZUSZKOWSKI SOPHIE 5256 BOURBONNIERE AVE MONTREAL QUE	B A 3 RA 1 0125		
		T	
		TABAC STEVEN TERRY 5491 VAN MORNE AVE MONTREAL 29 QUE	B ENG 1 RE 7 6764
		TABAKMAN PAUL 4027 DE LA PELTRIE MONTREAL QUE	B SC 2 RE 8 5344
		TAFER MARVIN M 5022 VICTORIA AVE MONTREAL QUE	B COM 1 RE 3 6023
		TAIT GEORGE R 148 VICTORIA AVE LONGUEUIL QUE	B ENG EL 4 OR 4 9731
		TAIT PAMELA J 623 MURRAY HILL WESTMOUNT QUE	A & S COM 1 HU 6 5389
		TAIT SANDRA ELIZABETH ROYAL VICTORIA COLLEGE QUEBEC CARTIER MINING CO SHELTER BAY QUE	B SC 3 VI 2 0598
		TAIT PETER STEWART 3573 HUTCHISON ST MTL BROXTON HOUSE CHILBOLTON NEAR STOCKBRIDGE HANTS ENGLAND	B A 2
		TAKAHASHI NORMAN SHOJI 208 JACQUES CARTIER ST FARNHAM QUE	B SC 3
		TAKAMOTO ROBERT M M A 3655 OXENDEN AVE MTL 1345 MOKU PL HONOLULU 14 HAWAII	MD CM 2 VI 9 3014
		TALBOT JOHN ALEXANDER 4541 BESEBOROUGH MONTREAL 28 QUE	B ENG 2 HU 1 5283
		TALIANA CLAUDE 7971 CARTIER ST MONTREAL QUE	B ENG EL 3 RA 1 9665
		TALIANA GERALD 2010 BELANGER ST MONTREAL QUE	B ENG 1
		TALLON HENRY MICHAEL 4617 COOLBROOK AVE MONTREAL 29 QUE	B SC 1 HU 4 5019
		TALMANIS ANDRIS BRITTAIN HALL 3249 BELLECHASSE ST MONTREAL 36 QUE	B ED 1
		TALPIS JEFFREY A 6091 WILBERTON AVE MONTREAL QUE	B A 2 RE 8 8705
		TAM CHRISTOPHER KWONG W 471 PRINCE ARTHUR ST W 41 CATCHICK ST HONG KONG	B ENG AM 3
		TAM KIM FUNG 3610 DUROCHER AVE APT 9 MTL 37 TIN HAU TEMPLE RD 1ST FL HONG KONG	B ENG AM 5 VI 9 5035
		TAMOLUNAS CASIMIR B 51 FORBES ST AMSTERDAM N Y USA	B ENG 2
		TAN SIAM KIM 3667 DUROCHER ST APT 23 MONTREAL QUE	MED DIPL 3 AV 6 2056

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TAN FRANCIS TON HIAN 471 PRINCE ARTHUR ST W APT 4 MTL 228 PAYVEN ST 2ND FL KOWLOON HONG KONG	B ENG MCH 2 VI 5 6694	TARI ALBERT ISRAHIM 2022 NORMAN ST VILLE ST LAURENT QUE	B ENG PHY 3 RI 8 7068
TANAKA EMIKO EMILY AMY 4869 WESTMORE AVE MONTREAL QUE	B ED 3 HU 6 9111	TARI LESLIE 127 MILTON ST MONTREAL QUE	B SC 2 VI 9 0956
TANAKA FUJIO 4869 WESTMORE AVE MONTREAL QUE	B ENG MCH 4 HU 6 9111	TARI YUSEF 2022 NORMAN ST VILLE ST LAURENT QUE	B ENG EL 4 RI 8 7068
TANAKA REIKO PAULINE 4869 WESTMORE AVE MONTREAL QUE	B A 1 HU 6 9111	TARLO JUDITH VIVIEN ROYAL VICTORIA COLLEGE 171 SPRING ST NEW YORK CITY USA	B A 4 VI 2 0526
TANENBAUM HOWARD LEON 834 MCEACHRAN AVE OUTREMONT QUE	MD CM 3 CR 7 7439	TARR DAVID ALAN 252 SIMCOE AVE TOWN OF MT ROYAL QUE	B A 3 RE 7 7581
TANG ANDREW 1441 DRUMMOND ST MTL 8 CASSIA RD HONG KONG	B SC 3	TARTER RAYNA LAIRD HALL 4882 CUMBERLAND SEE MONTREAL QUE	3 TCHRS
TANG SAV VAN SIMON 539 PRINCE ARTHUR ST W APT 3 MTL FLAT A FAIRVIEW MANSION 5TH FL PATERSON ST CAUSEWAY BAY HONG KONG	B ARCH 2 VI 4 8905	TATE ROBERT WILSON 177 UNION BLVD ST LAMBERT QUE	B A 3
TANNAHILL JUNE D STEWART HALL R R 2 HUNTINGDON QUE	2 TCHRS 2	TATHAM CHARLES CARLYLE 548 PRINCE ARTHUR ST W P O BOX 326 CAMPELLFORD ONT	B ENG 1 VI 2 0877
TANNAHILL KENNETH BURTON 1988 PATRICIA AVE VILLE ST LAURENT QUE	B ENG 2 RI 7 7911	TATHAM WILLIAM O 548 PRINCE ARTHUR ST W P O BOX 326 CAMPELLFORD ONT	B A 1 VI 2 0877
TANNENBAUM DIANA LEE 4950 BOURGEOIS ST APT 207 MONTREAL QUE	B SC 4 RE 1 2471	TAUB MICHAEL IRWIN 4300 WESTERN AVE WESTMOUNT QUE	B BTH 3 WE 4 1435
TANNER WILLIAM FREDERICK 570 MILTON AVE APT 22 BOX 304 NORTH HATLEY QUE	B COM 4 VI 5 0409	TAVARES STAFFORD E WILSON HALL 5 BROMPTON RD KINGSTON 5 JAMAICA B W I	B ENG PHY 3 VI 4 0624
TANZMAN HELENE ISABEL ROYAL VICTORIA COLLEGE 617 SAND COVE RD LANCASTER N B	B A 4 VI 2 0495	TAYLOR ALLEN LEVORE 3609 UNIVERSITY ST MTL 1212 18TH ST N W CALGARY ALTA	PH D 2 AV 8 6307
TANZMAN SANDRA LANE ROYAL VICTORIA COLLEGE 617 SAND COVE RD LANCASTER N B	B SC 1 VI 2 0829	TAYLOR ANGE SCOTT 3653 UNIVERSITY ST MTL 623 MAIN ST LACHUTE QUE	B ENG AM 5 AV 8 3070
TARAN SEYMOUR 6550 WESTBURY AVE MONTREAL QUE	B COM 4 RE 3 9519	TAYLOR DONALD 60 46TH AVE LACHINE QUE	B ENG 1 ME 7 0502
TARANDI MAI 5204 TRENHOLME AVE MONTREAL QUE	B A 1 HU 4 8944	TAYLOR FRANCIS ALBERT 3858 LABALLE BLVD VERDUN QUE	B ENG EL 3 PO 6 0674
TARASOFSKY JOSEPH 6040 HUTCHISON ST MONTREAL QUE	B ENG MCH 3 CR 9 9100	TAYLOR GLENN H 3851 UNIVERSITY ST MTL 316 PROSPECT ST RIDGEWOOD N J USA	B ENG 2 VI 4 0977
TARAZI ANTOINE K 3801 UNIVERSITY ST MTL 3578 SHUTER ST APT 3 MONTREAL QUE	MED DIPL 4 VI 2 1251	TAYLOR JAMES MATTHEW DOUGLAS HALL 420 STONE ST GANANOQUE ONT	B SC 2 VI 4 0977
TARCZAY GEZA BELA 3649 DUROCHER ST APT 11 MONTREAL QUE	B ENG CIV 3 VI 4 4796	TAYLOR JEAN ELIZABETH ROYAL VICTORIA COLLEGE 623 MAIN ST LACHUTE QUE	B SC 2 VI 9 0120
TARCZAY SZABOLCS LASZLO 3649 DUROCHER ST APT 11 MONTREAL QUE	B ENG EL 4 VI 4 4796	TAYLOR JUDITH ANNE LAIRD HALL 55 GEORGE AVE NORANDA QUE	B SC H EC 4
TARDER MORTY MELVIN 5530 VICTORIA AVE APT 14 MONTREAL QUE	B ARCH 5 RE 3 1257	TAYLOR LEON OSCAR 1832 LINCOLN AVE APT D 517 LUCAS ST ST GEORGES GRENADA T W I	M ENG 1
TARDIF JEAN MARIE 5350 DUDEMAINE MONTREAL QUE	B C L 4 RI 4 2045	TAYLOR MARILYN R STEWART HALL 2212 DUNKIRK RD TOWN OF MT ROYAL QUE	2 TCHRS 2

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NAME ADDRESS	COURSE & YEAR TEL. NO.	NAME ADDRESS	COURSE & YEAR TEL. NO.
TAYLOR MICHAEL CHRISTIE 60 BALFOUR AVE TOWN OF MT ROYAL QUE	B A 1 RE 7 8937	TEOLI RALPH ANTHONY 6241 2ND AVE MONTREAL 36 QUE	B ENG 2 RA 7 1765
TAYLOR MICHAEL LAWRENCE 574 DULWICH AVE ST LAMBERT QUE	B SC 3 OR 1 5436	TEFFENHARDT KAREN S 4135 KINGSTON AVE MONTREAL QUE	B SC 1 MU 8 0947
TAYLOR RODNEY BERNARD STRAUSS FARM PETITE RIVIERE NORTH ST EUSTACHE QUE	B SC 1	TERKEL GABRIEL 3445 RIDGEWOOD AVE APT 301 MONTREAL QUE	B A 1 RE 3 8140
TAYLOR THOMAS 3625 UNIVERSITY ST MONTREAL QUE	M S W 1	TERRONX ARTHUR C D 1509 SHERBROOKE ST W MONTREAL 25 QUE	B SC 3 WE 2 8560
TAYLOR WILLIAM F 485 SHERBROOKE ST W MTL 825 DURHAM AVE S W CALGARY ALTA	B COM 3 VI 5 0734	TERRONX PETER RICHARD S 1509 SHERBROOKE ST W MONTREAL 25 QUE	B ENG 1 WE 2 8580
TEASDALE PIERRE L 5646 WOODBURY MONTREAL QUE	B ENG 1 RE 7 4192	TERRY WILLIAM HARRISON 142 LAKEVIEW AVE PTE CLAIRE QUE	B COM 4 OX 5 5640
TEBBENS ESTHER MARY ANN 6100 RUE VIAU APT 9 MONTREAL QUE	M S D DIP CL 9 6630	TESSEMA NEGGA 3545 HUTCHISON ST MTL C O ATTO TAMENE SEYOUM P B 1367 ADDIS ABABA ETHIOPIA	B CL 3 VI 9 4375
TECTOR MARGARET ANNE 3565 LORNE AVE MONTREAL QUE	M SC 2 VI 9 5716	TESSLER IRVING 3924 CARLTON AVE MONTREAL QUE	B SC 2 RE 3 1644
TEDFORD ROBERT CLELAND 1595 COOLBROOK AVE MTL NORWOOD ONT	B COM 1	TETENBURG GERRIT J 4095 TUPPER ST WESTMOUNT QUE	MUS B 3 WE 5 0464
TEES RICHARD CHISHOLM 33 RENFREW AVE WESTMOUNT QUE	B A 3 MU 1 6479	TETERUCK WALTER ROBERT 3440 DECELES PL MTL 17 PRINCESS MARGARET TORONTO 18 ONT	B D S 3 RE 8 2802
TEITELBAUM HERMAN 4200 MAPLEWOOD AVE MONTREAL QUE	PH D 2 RE 9 7695	THEMELIS NICKOLAS JOHN 3480 UNIVERSITY ST MONTREAL QUE	PH D 3 VI 9 6221
TEITELBAUM MYRNA 483 CHAMPAGNEUR AVE OUTREMONT QUE	B A 2 CR 4 2634	THEODORE NICK 4269 ONTARIO ST E MONTREAL 4 QUE	B ENG 2 CL 5 6400
TEITLEBAUM ALBERT DAVID 5160 ROSEDALE AVE MONTREAL QUE	PH D 2 MU 9 2222	THEROU JOHN SHELTON 546 JEAN TALON W APT 4 BOX 515 STETTLE ALTA	B ENG EL 3 CR 4 1927
TEJADA LOUIS GEORGE HENRY 3260 RIDGEWOOD AVE APT 14 MTL SAN FCO DE MACORIS DOMINICAN REPUBLIC	B ENG MI 3 RE 8 7344	THERRIEN LAURENT JULES J 3768 GRAND BLVD LAFLECHE QUE 93 ECOLE NORMAGE ST NICOLET QUE	B SC 2 OR 6 4332
TEKKER PETER CONRAD 5280 DALOU ST MONTREAL QUE	B ENG CH 5 MU 1 6487	THIARA DALEL S 2039 UNIVERSITY ST APT 27 MTL VIL MEHMOWAL P O BASSI DAULATKHAM DISTT MOSHIARPUR PUNJAB INDIA	B ENG CH 3 VI 5 2005
TELFORD GEORGE MALCOLM 3565 DUROCHER ST APT 17 MONTREAL QUE	B SC 3	THIBAUT CAMILLE 939 OLD ORCHARD AVE MONTREAL 28 QUE	M SC 2 MU 4 6578
TELNER ANNA EDITH 5201 ROSEDALE AVE MONTREAL QUE	B A 1 MU 9 2336	THIBEAULT JOSEPH O P 3828 GERTRUDE ST VERDUN QUE	B COM 1 PO 8 4540
TEMERTEY CONSTANTINE J 6625 36TH AVE MONTREAL 36 QUE	B ENG 1 RA 2 4190	THIBODEAU MICHEL JOSEPH 1441 DRUMMOND ST MTL 1 NEWTON ST DRUMMONDVILLE QUE	B ENG 1
TEMPLE JOHN A STE ANNE S HOSPITAL STE ANNE DE BELLEVUE QUE	B SC 2	THIRLWELL MICHAEL P 3519 HUTCHISON ST MTL 12 KAI YUEN ST NORTH POINT HONG KONG	B SC 2 VI 9 9921
TEMPOERAS DENIS PETER 46 PINE AVE W MONTREAL QUE	B ENG MET 3 VI 5 7931	THOSE JOHN CHARLES 1441 DRUMMOND ST MTL 76 THORNDALE CRES HAMILTON ONT	B SC 2
TENENHOUSE ALAN 2660 GOVER ST APT 14 MONTREAL QUE	MD CM 2 RE 7 2825	THOMAS BARRY RENTON 5463 12TH AVE MONTREAL 36 QUE	B ENG MCM 4 RA 2 9880
TENG CHONG KWOK 3550 SHUTER ST APT 3 MTL 14A SHAN KWONG RD 2ND FL HAPPY VALLEY HONG KONG	B SC 2 VI 2 0452		
TENNESON ERNEST GEOFFREY 6340 FIFTH AVE MONTREAL QUE	B T M 3 RA 1 4187		

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THOMAS DOROTHY O ROYAL VICTORIA COLLEGE CLARKEVILLE P O BOX 64 BRONIS TOWN ST ANN JAMAICA W I	B SC P OT 2 VI 2 0334	THOMSON BARRY KAY 1465 DEPATIE VILLE ST LAURENT QUE	B ENG EL 3 RI 7 8078
THOMAS ELEANOR GALE STEWART ROAD 4580 BELMORE AVE MONTREAL QUE	B SC M EC 3	THOMSON GEORGE ALEXANDER 1228 SHERBROOKE ST W MONTREAL QUE	B A 1 VI 2 4212
THOMAS ELEANOR L 20202 LAKESHORE RD BAIE D URFEE QUE	B SC M EC 2	THOMSON JUDITH A 6635 LASALLE BLVD MTL 501 4TH AVE E OWEN SOUND ONT	B SC P OT 3
THOMAS GARFIELD BOSWORTH MACDONALD COLLEGE MUNRO COLLEGE JAMAICA W I	B SC AGR 3	THOMSON PATRICK M 325 MELVILLE AVE WSMT RAVENSBY HOUSE BARRY CARNOUSTIE ANGUS SCOTLAND	B COM 2 WE 2 7993
THOMAS HOWARD B 3660 LORNE CRES APT 24 298 ROYAL YORK RD N ISHINGTON ONT	MD CM 2	THONG KAR CHEONG BRITTAIRN HALL 6 PANGKOR RD PENANG MALAYA	B SC AGR 1
THOMAS HOWARD MURRAY MACDONALD COLLEGE 5756 17TH AVE MONTREAL 36 QUE	2 TCHRS 1	THORNILEY BRIAN HENRY GEOLOGY DEPT MCILL UNIVERSITY MONTREAL QUE	M SC 1
THOMAS JOSEPH BERTRAM O 48 CADZOW TERR ST LAMBERT QUE	B ENG 1 OR 1 1025	THORNTON SARA BAROTT 499 MOUNT PLEASANT MONTREAL 6 QUE	B COM 1 WE 2 6855
THOMAS MARY GABRIELLE ROYAL VICTORIA COLLEGE 33 CATHERINE ST NEWPORT RHODE ISLAND USA	B A 3 VI 2 0526	THORP BEVERLEY JEAN MACDONALD COLLEGE 576 CURZON AVE ST LAMBERT QUE	B ED 1
THOMAS MAX MATTHEW P 3892 DUROCHER ST APT 6 4 CLIMBERBATCH LANE BELMONT PORT OF SPAIN TRINIDAD P W I	B ARCH 4 VI 5 3020	THORPE PHILLIP PERRY 3506 UNIVERSITY ST MTL HALLS HARBOUR KINGS CO N S	B ENG COM 5 VI 2 6986
THOMPSON ARTHUR F 25 COTE ST CATHERINE APT 9 MONTREAL 8 QUE	B T M 1	THUN NOEL ELIZABETH ROYAL VICTORIA COLLEGE SINKING SPRING R D 1 PHILADELPHIA USA	B SC 2
THOMPSON CAROLYN LEA MACDONALD COLLEGE 663 ALLARD AVE VERDUN 19 QUE	3 TCHRS	THURLOW WILLIAM J 2376 MELROSE AVE APT 11 215 PATTERSON AVE OTTAWA ONT	PARTIAL HU 1 5534
THOMPSON GARY ROBB 705 45TH AVE LACHINE QUE	2 TCHRS ME 7 3893	TICEHURST WINONA F A MACDONALD COLLEGE THE PINES R R 4 MAGOG QUE	2 TCHRS 2
THOMPSON GORDON D 3410 KENT AVE MONTREAL QUE	MED DIPL 2 RE 1 4405	TIETDMAN MARILYN 4915 GLENCAIRN AVE MONTREAL QUE	2 TCHRS 2 HU 4 5590
THOMPSON HUGH MACLEOD 37 BRUNET AVE PTE CLAIRE QUE	B ENG EL 4 OX 5 4305	TIGER PHYLLIS SHEILA 5841 DUROCHER ST OUTREMONT QUE	B SC 1 OR 2 8164
THOMPSON JOHN M B MAIN RD HUDSON HOTS QUE	B A 2	TIIIVEL MATI 1830 LINCOLN AVE APT 9 MONTREAL QUE	B ENG MET 5 WE 3 3571
THOMPSON JUNE OGILVIE 4481 MONTROSE AVE WESTMOUNT QUE	B A 2 HU 4 5000	TILBURY ROY SIDNEY 3609 UNIVERSITY ST MTL 28 WELLESLEY AVE GORING SUSSEX ENGLAND	M SC 1 AV 8 6307
THOMPSON LLOYD HORATIO 3421 SHUTER ST MTL BROUGHTON LITTLE LONDON JAMAICA W I	B D S 2 VI 2 4927	TILTINS VIZMA V 5840 DUROCHER ST OUTREMONT QUE	B SC M EC 2
THOMPSON PATRICIA ANN 20 BASSWOOD CIRCLE PTE CLAIRE QUE	2 TCHRS OX 5 4094	TINLECK ARTHUR JAMES DOUGLAS HALL 12930 OLD VALE RD NORTH SURREY B C	B ENG CIV 3 VI 5 2375
THOMPSON PETER DENIS 6526 JOQUESS ST MONTREAL 20 QUE	B A 2 PO 7 8735	TIMMINS WILLIAM ANTHONY 14 SUNNYSIDE AVE MONTREAL QUE	B ENG 2 WE 5 1919
THOMPSON SYBIL NYACINTH MACDONALD COLLEGE 15 LINGTON ST MARY JAMAICA W I	B SC M EC 2	TINGLEY DANIEL HARPER 75 ROSEMOUNT CRES WESTMOUNT QUE	B A 4 WE 2 2833
THOMPSON VALERIE ANNE 3194 KENT AVE MONTREAL QUE	B A 1 RE 8 7028	TINGLIN AUDLEY B 2 MOUNTAIN VIEW AVE KINGSTON 2 JAMAICA T W I	B SC 2

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TINKER MARY AGNES LOIS 4720 ROSLYN AVE MONTREAL QUE	B A 1 HU 8 4758	TOWLE RODERICK M 956 MONCRIEFF RD TOWN OF MT ROYAL QUE	B ENG 1 RE 8 0514
TINMOUTH WILLIAM W 6879 MONKLAND AVE MONTREAL QUE	B C L 4 VI 5 5231	TOWN PENELOPE ANN MIMI 3484 DUROCHER ST APT 204 8 WILLARD AVE MT VERNON N Y USA	D D S 2 VI 3 4027
TISDALE TERRY CHARLES 3444 DUROCHER ST MTL 1719 UNIVERSITY AVE GRAND FORKS NORTH DAKOTA USA	MD CM 3 AV 8 4344	TOWNSEND PAUL ALBERT R 50 FRANKLIN AVE MONTREAL 16 QUE	PARTIAL RE 8 1857
TISHLER JACK MURRAY A 4907 BORDEN AVE MONTREAL 29 QUE	MD CM 3 HU 8 6303	TOY KENNETH W 318 TUDOR AVE ST LAMBERT QUE	B ENG 2 OR 1 5875
TKACHYK WALTER JOSEPH 8133 BLOOMFIELD AVE MONTREAL QUE	B ENG 1 CR 7 5389	TRACHEWSKY DANIEL 3483 HUTCHISON ST MONTREAL 18 QUE	B SC 3 VI 4 1388
TLOE LOAN HOA 3426 STANLEY ST 60 DJL PEDJADJARAN BANDUNG INDONESIA	GRAD DIP 1 VI 4 0360	TRACHMAN FELICE MACDONALD COLLEGE 4976 FULTON ST MONTREAL 29 QUE	2 TCHRS 1
TODD JOHN HENRY BRITTAIN HALL R R 2 LONDON ONT	B SC AGR 3	TRAIL GORDON A BRITTAIN HALL R R 6 FREDERICTON N B	B SC AGR 4
TOLENSKY IRWIN VICTOR 6742 MOUNTAIN SIGHTS AVE MONTREAL QUE	B ENG EL 3 AVE RE 7 4996	TRAINOR JOHN DAVID 454 STRATHCONA AVE WESTMOUNT QUE	B COM 4
TOLHURST GAIL CORETTA 757 LEXINGTON AVE WESTMOUNT QUE	B A 1 HU 4 1885	TRAVERS SUSAN ELIZABETH MACDONALD COLLEGE 651 DES MELEZES THREE RIVERS QUE	B ED 1
TOMALTY MARGO DALE 159 THIRD ST GREENFIELD PARK QUE	B SC P OT 1 OR 1 6281	TREMBLAY CARL ALFRED 389 DELINELLE MONTREAL QUE	B C L 1 WE 3 5407
TOMASZUK PAULA 4965 HAMPTON AVE MONTREAL QUE	B L S 1 HU 8 0933	TREMBLAY JEAN MARC 3509 HUTCHISON APT 706 1052 MAPLE SHAWINIGAN QUE	B ENG MCH 4
TOMECKO JO ANN ROSEAN 41 ELMWOOD RD SENNEVILLE QUE	B A 1	TREMPE RAYMOND 113 GEORGE ST SOREL QUE	B COM 2 RI 3 8186
TOMIUK ELIZABETH M 109 NEPTUNE BLVD STRATHMORE QUE	B A 1 ME 1 1693	TRENKER DOREEN ELIZABETH LAIRD HALL 920 ATKINSON ST REGINA SASK	B ED 2
TOMLINSON JOHN EDWARD 335 HAWTHORNE AVE LONGUEUIL QUE	B ENG EL 4 OR 4 4864	TREVICK DANIEL I 45 JOYCE AVE OUTREMONT QUE	B A 3 CR 6 6943
TONKIN ROGER S 4230 ROYAL AVE MONTREAL 28 QUE	MD CM 2 HU 4 2441	TRIANTAPILLIDIS GERASIMOS 2020 VICTORIA ST APT 18A MONTREAL QUE	B ENG EL 4 VI 4 6815
TOONG TUNG 258 SHERBROOKE ST W APT 6 MTL 2 NEW EASTERN TERRACE 1ST FL HONG KONG	B SC 2	TRIANTAPILLIDON MARY 2020 VICTORIA ST APT 18A MONTREAL QUE	M S W VI 4 6815
TOPOLSKI RICHARD 4047 MACKENZIE MONTREAL QUE	D D S 2 RE 3 3106	TRICKEY KENNETH WELDON 27 BROCK AVE N MONTREAL WEST QUE	M A 1 HU 6 4395
TOROBIN ALLAN JEFFREY 78 DULUTH ST W MONTREAL 18 QUE	B SC 2 VI 4 7020	TRILLER HENRY 4915 COTE ST CATHERINE MONTREAL QUE	B SC 3 RE 3 7071
TORREY EDWIN FULLER 3585 ST ZOTIQUE ST E MTL CHESTNUT ST CLINTON NEW YORK USA	MD CM 1	TRISCHUK JOHN MICHAEL 227 WOODSTOCK ST ST LAMBERT QUE 710 SHERBOURNE RD OTTAWA ONT	B ENG PHY 4 OR 1 1833
TOECOE PANAYOTIS A 7681 PREVOST BLVD MTL ARGOLIDOS 7 AMBELOKIFI ATHENS GREECE	B COM 1 RA 1 5715	TROKENSBERG LILY 7285 STUART AVE MONTREAL QUE	B SC 1 CR 9 5574
TOTH JOSEF 3516 JEANNE MANCE MONTREAL QUE	B ENG AM 3 VI 4 0618	TROSSMAN BERNARD 5715 DREXEL AVE CHICAGO 37 ILL USA	MED DIPL 2
TOURVILLE JACQUES ROGER 5303 HUTCHISON ST MONTREAL QUE	B ENG 1 OR 9 0580	TROTT EDWARD WILLIAMS 3838 MARLOWE AVE MTL 18 N MAIN ST HEMLOCK NEW YORK USA	MD CM 2 HU 4 9892

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TRUMAN CATHERINE ANN 82 PARKDALE AVE VALOIS QUE	B ED OX 7 0616	TULCHINSKY ALEXANDRA ALA 3221 FOREST HILL AVE APT 24 MONTREAL 26 QUE	B A 4 RE 1 5826
TRUMAN JAMES C 1106 ELGIN TERR APT 101 50 STARK KNOLL PL OAKLAND CALIF USA	MD CM VI 5 4468	TULCHINSKY GERALD J J 3440 SHUTER ST APT 6 MTL 176 ST GEORGE ST BRANTFORD ONT	M A 8 VI 8 6609
TRUNKEY FRANKLIN MCATEE 3654 HUTCHISON ST MTL 469 SHOEHONE PL W SPOKANE 41 WN USA	MD CM VI 5 4468	TUMAS STANLEY RAYMOND 5950 25TH AVE MONTREAL 36 QUE	B ENG MCH 3 RA 1 6190
TRUSLER PETER D H 3473 UNIVERSITY ST MTL R R 3 NORTH BAY ONT	B ARCH 2	TUN M HLA 3615 UNIVERSITY ST MTL 104 94TH ST KANDAEODGALAY RANGOON BURMA	M ENG 1 VI 4 0888
TSANG CHARLES PAK WAI 575 PRINCE ARTHUR ST W 2 KAI YUEN TERR 2ND FL NORTH POINT HONG KONG	B SC 3	TUNSTALL KENNETH 3456 BEACONSFIELD AVE MONTREAL 28 QUE	B SC 4 HU 4 6889
TSANG YUK LAM 1441 DRUMMOND ST MTL 161 MAIN ST 1ST FL SHAUKIWAN HONG KONG	B A 1	TURGEON JEAN CLAUDE 452 MT STEPHEN AVE MONTREAL 6 QUE	M SC 2 WE 7 2651
TSAO HOU YU 294 SHERBROOKE ST W MTL 27 CANAL RD W TOP FL HONG KONG	B SC VI 9 0001	TURIANSKI CHRISTIAN EMM 1409 RUE PLESSIS MONTREAL QUE	B A 3 LA 6 9745
TSAO JULIA IMELDA MARIA ROYAL VICTORIA COLLEGE 4 PERKINS RD HONG KONG	B SC VI 2 0265	TURKENIK CAROLE JUDITH ROYAL VICTORIA COLLEGE MYRTLE BANK HOTEL KINOSTON JAMAICA B W I	B SC 1 VI 2 0597
TSAO SHANG 3437 PEEL ST APT 1 MTL 27 CANAL RD W TOP FL HONG KONG	B ENG EL VI 4 0027	TURKENIK MARLENE FRANCES MACDONALD COLLEGE 4857 KENT AVE MONTREAL QUE	B TCHRS 2
TECHUDI JURG L E 495 PRINCE ARTHUR ST W APT 25 MTL CASILLA 818 LIMA PERU	B COM 3	TURMAINE ANTHONY 8022 RAOUL ST MONTREAL 35 QUE	B ENG MCH 4 RA 1 2225
TSIOARIDAS THOMAS 391 ST JOSEPH BLVD W APT 8 MONTREAL QUE	B ENG 1	TURNAU EDMUND ALBERT OTTO 3481 PARK AVE APT 9 MONTREAL QUE	B ENG AM 3
TSO LIANG 3437 PEEL ST APT 1 MTL 27 CANAL RD W TOP FL HONG KONG	B SC VI 4 0027	TURNBULL ALAN DAVID M 776 CANORA RD TOWN OF MT ROYAL QUE	MD CM RE 1 4716
TUCHNER MARCEL 5820 HUTCHISON ST APT 3 MONTREAL QUE	B ENG EL CR 1 0783	TURNBULL DAVID I 2990 GLENCOE AVE TOWN OF MT ROYAL QUE	MD CM RE 8 5960
TUCKER CLAIRE 4538 OXFORD AVE MONTREAL QUE	M B W HU 4 3304	TURNBULL DOROTHY MARGARET ROYAL VICTORIA COLLEGE 142 TRUDEAU BLVD BEAUMHARNOIS QUE	B A 3 VI 9 0858
TUCKER CLIFFORD ELRIE 3484 DUROCHER ST APT 204 5 PRESCOTT ALLEY EAST DRY RIVER PORT OF SPAIN TRINIDAD W I	MD CM VI 2 4027	TURNBULL JANET ELIZABETH 142 TRUDEAU BLVD BEAUMHARNOIS QUE	M B D DIP 2
TUCKER ERIC CLINTON 3554 STE FAMILLE APT 1 5 PRESCOTT ALLEY EAST DRY RIVER PORT OF SPAIN TRINIDAD W I	MD CM VI 2 4027	TURNER ALLAN CECIL 1091 BEATTY AVE VERDUN QUE	B COM PO 8 0426
TUCKER JOHN ARTHUR 135 KENASTON AVE TOWN OF MT ROYAL QUE	B A RE 9 0340	TURNER BARBARA JEAN 1009 SHERBROOKE ST W MTL 476 ARROWHEAD RD PORT CREDIT ONT	B SC P OT 2 VI 2 7444
TUCKER LEONARD G 5757 WOLSELEY AVE COTE ST LUC QUE	B A HU 9 4324	TURNER JOAN VIRGINIA MACDONALD COLLEGE 26 CHARLTON AVE E HAMILTON ONT	B SC M EC 4
TUCKER NORMA JANE 135 KENASTON AVE TOWN OF MT ROYAL QUE	B SC N RE 9 0340	TURNER JOHN MEIKLE A 6187 TERREBONNE AVE MONTREAL 28 QUE	PARTIAL HU 9 6034
TUCKER WILLIAM ROBERT 4538 OXFORD AVE MONTREAL QUE	B ENG MCH HU 4 3304	TURNER JOYCE JEANIE 6 MAPLE AVE APT 52 STE ANNE DE BELLEVUE QUE	B TCHRS 1
		TURNER MARY LOVELACE ROYAL VICTORIA COLLEGE 476 ARROWHEAD RD PORT CREDIT ONT	B A 3 VI 2 0265
		TURNER NORMAN ERIC 4968 VICTORIA AVE MONTREAL QUE	B ENG 1 RE 3 5250

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TUTSCH ELIZABETH C 515 LANSDOWNE AVE WESTMOUNT QUE	3 TCHRS WE 7 3475	URQUHART GLEN DEPT OF GEOLOGY MCGILL UNIVERSITY MONTREAL QUE	M SC 1
TUYS ALMA JEAN LAIRD HALL BOX 151 BOURLAMAQUE QUE	2 TCHRS	USHER DAVID RICHARD 4437 KING EDWARD AVE MONTREAL QUE	M SC 1 MU 6 5151
TWEEDIE LUCIA JOAN 222 MILTON ST APT 3 MTL 5 FRIESEL RD ROUTE 73 ALBANY 8 N Y USA	M SC 1 AV 8 0649	USHER MICHAEL S 7 RENFREW AVE WESTMOUNT QUE	MD CM 2 MU 6 3034
TWIDALE VALERIE JOY ROYAL VICTORIA COLLEGE 262 RUA ALFREDO ELLIS APT 3 SAO PAULO BRAZIL S A	B A 2	USHER PETER JOSEPH 4647 UPPER ROSLYN AVE MONTREAL QUE	B A 1 MU 6 2088
TYMAN JOHN LANGTON 3445 PEEL ST MTL ROSEDALE BROADDITCH GRAVESEND KENT ENGLAND	M A 1 VI 5 9462	UTSAL JACK 5340 ST IGNATIUS AVE MONTREAL 29 QUE	B ENG EL 1 MU 8 6228
TYRELL RAOUL 3513 UNIVERSITY ST MTL DEVONSHIRE WEST BERMUDA	B ENG COM 5 VI 9 5946	UTTARO DAVID R R 2 CHAMBLY QUE	B ED 3 OL 8 2695
U		V	
U SHAM KEUNG KEVIN 3637 OXENDEN AVE APT 4 97 HILL RD GN FL HONG KONG	B ENG 2 VI 9 0504	VACHON GUY HENRI 1934 DUBOIS MONTREAL 20 QUE	B ENG CIV 3 PO 6 6627
UDD JOHN EAMAN 1444 REDPATH CRES MONTREAL 25 QUE	M ENG 1 VI 9 4993	VADASZ LESLIE 1565 VAN HORNE AVE APT 16 MONTREAL QUE	B ENG PHY 4 CR 9 3796
UDEN DAVID E 2317 GRAND BLVD MONTREAL 28 QUE	MD CM 2 MU 4 2835	VADORI MAX ROMAN JAMES 26 DONCK LAVAL DES RAPIDES QUE	B ENG 2 MO 9 4849
UDITEKY JOAN LINDA 36 SUMMIT CRES MONTREAL QUE	B A 3 MU 1 5044	VAILLANCOURT JOSEPH L C 183 STE FAMILLE PL MTL 495 PASTEUR ST JONQUIERE QUE	B COM 1 VI 5 7633
UETE YETSUO 3541 SHUTER ST MTL KITAJIMA IWAKUNA NIWAQUN AICHI KEN JAPAN	PH D 2 VI 2 0892	VAINSTEIN ELLA 4585 DUPUIS AVE APT 16 MONTREAL QUE	B SC 2 RE 3 5143
ULRICH ALLAN 4426 CIRCLE RD MONTREAL QUE	B A 3 RE 3 4391	VALCIC ANTE BRITAIN HALL MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	B SC AGR 3
ULRICH GARY STANLEY 511 ST GERMAIN AVE OUTREMONT QUE	B A 3 RE 3 6266	VALDMANIS AGNAR 574 ROSLYN AVE WESTMOUNT QUE	B SC 2 MU 4 0712
UNDERDOWN BRIAN JAMES 244 HECTOR ST ROSEMERE QUE	B SC 2 NA 5 8388	VALDMANIS GUNDARS 574 ROSLYN AVE WESTMOUNT QUE	B SC 3 MU 4 0712
UNDERHILL JANET E MACDONALD COLLEGE 114 BROWNSBURG RD LACHUTE QUE	P E DIP 1	VALDMANIS VIDUUD 574 ROSLYN AVE WESTMOUNT QUE	B SC 1 MU 4 0712
UNG ALBAN YOW MING 4974 KENT AVE MONTREAL QUE	PH D 4 RE 9 6966	VALENTINE MARGARET HAZEL 138 FILION ST STE ROSE CO LAVAL QUE	B A 2 NA 5 2676
UPELNIEKS LAUMA OZINTRA QUEEN MARY VETERANS HOSP 1487 W 15TH AVE APT 2 VANCOUVER B C	MED DIP 2	VALENTINE MAURICE C B 3435 HUTCHISON ST MTL 1796 ST JOHN B PL BROOKLYN N Y USA	B ENG 2 MU 6 1750
UPHOFF DEAN F DOUGLAS HALL 524 JOHNSON ST MINONH ILL USA	MD CM 2 VI 5 7849	VALENTINE ROBERT WILLIAM 6308 GODFREY AVE MONTREAL 28 QUE	B ENG MCH 3 MU 6 1750
UPTON PHYLLIS GERTRUDE 30 PICARDY RD BAIR D URFEE QUE	M B D DIP	VALIQUETTE MAXINE F 238 GLENGARRY AVE MONTREAL QUE	B A 2 RE 7 4680
		VALLERAND CLAUDE 3579 DUROCHER ST MTL 565 GRAND ALLEE E QUEBEC CITY 4 QUE	B ENG PWR 5 VI 9 5078
		VALOIS JEAN PIERRE 35 RONALD DR APT 8 MONTREAL WEST QUE	B ENG CIV 5 MU 6 2203
		VAMPLEW DARRAGH 3434 MACTAVISH ST MONTREAL QUE	B A 4

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VAN GEORGE PAUL DOUGLAS HALL 189 RADIN RD ARVIDA QUE	B A 3	VANWESENBECK HERMAN A E BRITTAIN HALL MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	B SC AGR 3
VAN ABCEMA JOHN MACDONALD COLLEGE R R 3 RIDGETOWN ONT	B SC AGR 1	VARAHAMI SOHRAB 3635 LORNE CRES APT 6 5 PAK LANE VILLA AVE TEHERAN IRAN	B ENG 2 VI 2 0557
VANAQAB JOSEPH CHARLES 6317 DES ECORES ST MONTREAL QUE	B ENG EL 4 RA 1 4460	VARGAS ROBERTO 3485 MCTAVISH ST MTL APARTADO 1785 SAN JOSE COSTA RICA C A	B SC 2 VI 9 0141
VAN BOVEN JOAN LOUISE 59 NORTHVIEW AVE MONTREAL QUE	B SC 2 HU 1 4348	VARMA DAYA RAM 633 UNDERHILL PL MTL E2 P1 RIVER BANK COLONY LUCKNOW INDIA	PH D 1
VAN BRUMMELEN HARRO W WILSON HALL 1010 15TH ST S W CALGARY ALTA	B SC 2	VARSANYI NICHOLAS ANTHONY 5152 N D O AVE MONTREAL QUE	M A 1 HU 1 9094
VAN DE KERCHOVE JEAN JOHN 1481 MANSFIELD ST MTL 2ND AVE BRUGMANN BRUSSELS BELGIUM	M A 2	VARY MICHEL JACQUES 2050 MOUNTAIN ST APT 6 8 BOWER AVE OTTAWA ONT	L L M 1 VI 9 2936
VAN DE WETERING HYLKE HARRISON HOUSE BY HEDELUM THE NETHERLANDS	M A 1	VAS MAGDOLNA 3380 GOYER ST MONTREAL QUE	MED DIPL 3 RE 3 1553
VAN DER BELLEN LIANA I 3450 DUROCHER APT 38 MONTREAL QUE	M L S 2 VI 5 5916	VASILKIOTI ALEXANDER 3173 VAN HORNE AVE MONTREAL QUE	B COM 3 RE 9 4376
VAN DER BRUG SENDIKS W BRITTAIN HALL 8AS BACKER LAAN 10 APELDOORN THE NETHERLANDS	B SC AGR 4	VASILKIOTI FRANKLIN M 4801 CIRCLE RD MONTREAL QUE	B C L 1 HU 8 2194
VANDERPOOL EUGENE 1441 DRUMMOND ST MTL 54 SOUDIAS ST ATHENS GREECE	B SC 2	VASOS PETER 424 ST JOSEPH BLVD W MONTREAL QUE	B ENG MCH 4 CR 9 3876
VAN DER SCHANS CORNELIS MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	B SC AGR 3	VAUCROESON NOEL VICTOR A 3538 HUTCHISON ST MTL MORNE COCO RD FOUR ROADS TRINIDAD W I	B ARCH 4 VI 9 0611
VANDERWOLF CORNELIUS M 3570 SHUTER ST APT 6 MTL OLENEVIS ALTA	PH D 2 VI 9 3407	VAUGHAN RODNEY E 1237 ST MARK ST MTL 9 VICTORIA AVE WOLFVILLE N S	B A 4 WE 7 7089
VAN ERMINGEN MARINA 4125 ESPERANDE MONTREAL QUE	M SC 1 VI 5 0848	VAUGHAN WILLIAM E 3602 DUROCHER ST APT 8 MTL 433 ELM ST FREDERICTON N B	M SC 1 AV 8 0485
VANIER GUY ERNEST 477 LABELLE ST ST JEROME QUE	B ENG 1	VEERMAE MAIMO 5268 BYRON ST MONTREAL QUE	GRAD DIP 1
VANIER JACQUES F 11112 AUDOIN MTL RIGAUD QUE	M SC 2 DU 1 6186	VEGA JORGE MANUEL AV ARMENDARIZ 490 MIRAFLORES LIMA PERU	B COM 1
VAN INGEN ROBERT 3626 OXENDEN AVE APT 4A MONTREAL QUE	B SC 4 AV 8 2934	VEGH LADIS JULIAN 8629 BIRNAM ST MONTREAL 15 QUE	B COM 4 CR 9 3564
VAN LOON JOHN B BOX 19 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	M SC 1	VENDITTI GIACINTO G 2568 DARLING ST MONTREAL 4 QUE	B COM 4 CR 9 3564
VAN OOSTROM CORNELIS A HUT B 12 MACDONALD COLLEGE ZANDWEG 18 DEMEERN UTR HOLLAND	B SC AGR 3	VENEZIAN GIULIO VITALE B 1463 BISHOP ST APT A5 P O BOX 451 QUITO ECUADOR	B ENG EL 3 LA 6 6966
VAN OOSTROM JOHN 93 18TH AVE ST EUSTACHE SUR LE LAC QUEBEC	B ENG 2	VENIS HELEN FRANCES 4514 CIRCLE RD MONTREAL QUE	B ENG EL 3 LA 6 6966
VAN PELT JACQUES A 6 WEREDALE PK WENT MEENIKNOF DEEST OLO HOLLAND	B ED P ED 3 WE 5 9621	VENNEMA ALJE 1280 PINE AVE MTL 2120 WELLINGTON AVE BURLINGTON ONT	B A 3 RE 7 0409
VAN RUND GERT MACDONALD COLLEGE EAGLESHAM P O KIBIL KENYA E AFRICA	M S D DIP	VERDE PIERRE 3880 COTE DES NEIGES MTL 193 FRASER ST QUEBEC CITY 6 QUE	MD CM 2 VI 2 9451

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NAME ADDRESS	COURSE & YEAR TEL. NO.	NAME ADDRESS	COURSE & YEAR TEL. NO.
VERRANDO CARLOS A 534 PRINCE ARTHUR ST W 355 LOS FICUS SAN ISIDRO LIMA PERU	B ENG 1 VI 1 0154	VINEGAR BEVERLY 21 LEGAULT ST STE ANNE DE BELLEVUE QUE 58 COURCELETTE AVE MONTREAL QUE	2 TCHRS RE 7 1487
VERRIER WILLIAM LAWRENCE 3145 GLENCOE AVE MONTREAL 16 QUE	2 TCHRS RE 7 8654	VINEY ELLEN FRANCES 4895 COTE ST CATHERINE MONTREAL QUE	3 TCHRS RE 7 1487
VERVILLE ROCH RENE 8788 BLVD ST MICHEL APT 6 VILE ST MICHEL QUE 378 AQUEDUC ST VICTORIAVILLE QUE	B ENG PHY 3	VINEY MARIE BELLE VYETTE LAIRD HALL 169A LAURIER AVE BOURLAMAQUE QUE	B SC M EC 4
VERWAAY HENDRIK A 325 MELVILLE AVE WSMT C O MADSEN EXP IMP S A PORT AU PRINCE HAITI W I	B COM 4 WE 2 9993	VINGER IRVING 5615 RANDALL AVE COTE ST LUC QUE	B A 2 HU 6 4002
VEZINA JEAN LORRAIN 6196 HUDSON RD MONTREAL 26 QUE	MED DIPL 2 RE 1 0687	VIRBALL VICTOR G 1755 MEIR VILLE ST LAURENT QUE	B ENG 2
VEZINA JOSEPH GERARD A 7957 HENRI JULIEN MONTREAL QUE	B C L 1 DU 8 5240	VISHNU RAMNARACE 47 MAIN RD CHAGUANAY TRINIDAD W	B ENG 1
VEZINA MARC 7425 CANORA RD APT 411 TOWN OF MT ROYAL QUE	B ARCH 2 RE 8 4098	VISSER ERIC PIERRE DOUGLAS HALL 30 HYDE PARK GATE LONDON E W 7 ENGLAND	B SC 1
VEZINA MICHEL JOSEPH 3697 MENTANA MONTREAL QUE	B SC 1 LA 2 0902	VIVIAN DOUGLAS ALAN 3869 ST FAMILLE ST MTL 73 DRUMMOND ST GRANBY QUE	B ENG CH 5 VI 2 2896
VIBERG HENRY ROBERT 6 SWALLOW AVE DORVAL QUE	B A 1 ME 1 5377	VLAHOS JOHN 681 JARRY W APT 1 MONTREAL QUE	B ENG EL 4
VICAS ALEXANDER GEORGE 5915 12TH AVE MONTREAL 36 QUE	B COM 4 RA 2 6134	VODSTRCIL PETER GEORGE 1509 SHERBROOKE ST W MONTREAL QUE	B A 2 WE 2 2936
VICTOR EDWARD 3102 BRIGHTON AVE MONTREAL QUE	B COM 3 RE 8 1433	VOGELEANG DORIS J 141 IVANHOE CRES LAKESIDE HEIGHTS QUE WILLIAMSTOWN ONT	B SC M EC 3
VICTOR ISAAC A 484 PRINCE ARTHUR ST W MONTREAL QUE	B COM 3 AV 8 1607	VON DER MUEHLE ECKART M F 4586 DECARIE BLVD MONTREAL QUE	B ENG 1 HU 1 3450
VIENTI JOSEPH ANTONIO F 1555 GRAVEL AVE BOSSARD VILLE QUE	B ENG MCH 5	VON ZUBEN DOROTHY JANE 1433 BISHOP ST APT 8 MTL 43 WINTERMUTE ST FORT ERIC ONT	GRAD DIP 1 VI 5 0533
VIKANDER LARS ERIK 69 FRANKLIN AVE MONTREAL 16 QUE	B ENG CIV 3 RE 1 1076	VOORHIS GREYTONEN CHAPIN ROYAL VICTORIA COLLEGE 79 WESTPORT RD WILTON CONN USA	B A 4 VI 2 0334
VILA MARY ELIZABETH ROYAL VICTORIA COLLEGE 619 REMBERT PLCE BALDWIN NEW YORK USA	B A 1 VI 2 0397	VOSEBORN NEWTON EUGENE 4266 OLD ORCHARD AVE APT 9 MONTREAL QUE	M A 1
VILLANI DANTE ANTHONY R 418 PINE AVE W APT 15 270 WHITE ST SPRINGFIELD 8 MASS USA	B D S 3 VI 5 8798	VOSS BRIAN ERIC 55 AVE DESLAURIERS PIERREFONDS QUE	B ENG EL 3 MU 4 3057
VILLANYI BOKOR AGNES J 3201 FOREST HILL AVE MONTREAL 26 QUE	B SC 1 RE 1 0882	VOSS RUTH E 3300 RIDGEWOOD AVE APT 48 MONTREAL QUE	B A 2 RE 3 3525
VILNER FRANCES LOIS LAIRD HALL 2202 NOEL ST VILLE ST LAURENT QUE	3 TCHRS	VUCKOVIC MILORAD 429 PRINCE ARTHUR ST W APT 2 MONTREAL QUE	PH D 2 AV 8 8050
VINARIC JOSEPH 3540 COTE ST CATHERINE APT 3 MONTREAL QUE	B SC 3 RE 3 0324	VULKOVIC NICOLA 3565 DUROCHER ST APT 15 MONTREAL QUE	M A 2 VI 5 2083
VINE GOLDIE SYLVIA 5220 VICTORIA AVE APT 9 MONTREAL QUE	M E W 2 RE 7 0316		
VINEBERG DAVID ALLAN 566 POWELL AVE TOWN OF MT ROYAL QUE	B COM 1 RE 8 7129		
VINEBERG THEDA 4851 BARCLAY AVE APT 4 MONTREAL QUE	3 TCHRS RE 3 0735		

W

WADDELL JOHN C 3015 GRAHAM BLVD TOWN OF MT ROYAL QUE	B ARCH 2 RE 8 8367
WADDELL MARION HELEN STEWART HALL BOX 23 METCALFE ONT	B SC M EC 3

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WADDELL ROBERT WILLIAM 3015 GRAHAM BLVD TOWN OF MT ROYAL QUE	B SC 4 RE 8 8367	WALKER DIANE ELIZABETH ROYAL VICTORIA COLLEGE 3727 REVELSTONE DR OTTAWA ONT	B A 1 VI 2 0829
WADDINGTON JOANNE 1472 BISHOP ST APT 8 MTL 196 MONTCLAIR AVE TORONTO ONT	GRAD DIP 1 AV 8 7321	WALKER EDWARD R 4000 BENNY AVE APT 16 MONTREAL QUE	PH D 3 MU 6 2993
WAGLE DINKAR G 5071 KENSINGTON AVE MTL 3 37 NAVALKAR BLDO KENNEDY BRIDGE BOMBAY 4 INDIA	PH D 2 MU 4 8320	WALKER JACK MALCOLM 3581 UNIVERSITY ST MTL 317A AMELIA ST CORNWALL ONT	B ENG EE 3 VI 9 1368
WAGNER LUDWIG P 425 KENASTON AVE TOWN OF MT ROYAL QUE	M A 2 RE 3 4677	WALKER JAMES DOUGLAS 4895 MAYFAIR AVE MTL R R 3 CARBONDALE ILL USA	MD CM 3 MU 9 6589
WAINBERG HAZEL JOAN 756 LEXINGTON AVE MONTREAL 6 QUE	M B W 1 HU 9 7279	WALKER JANE DE BRISAY 20 HOLTON AVE MONTREAL 6 QUE	B SC P OT 3 WE 5 1321
WAIT PATRICIA ANNE ROYAL VICTORIA COLLEGE 316 JAMES ST E HAMILTON ONT	B A 3 VI 2 0327	WALKER JOHN G 3434 MCTAVISH ST MTL 19 HILLCREST AVE ST CATHARINES ONT	B ENG 1
WAIT PHILIP ANTHONY 3445 ONTARIO AVE MONTREAL QUE	B A 4 VI 5 7811	WALKER LOUIS ASTLEY BRITTAIR HALL 10 RETIREMENT RD CROSS ROADS P O JAMAICA W I	B SC AGR 4
WAITE ALLAN ALASTAIR 3439 HUTCHISON ST MTL LAMBS RIVE P O JAMAICA B W I	B COM 1	WALKER MARY JUDITH EDEN ROYAL VICTORIA COLLEGE 5315 GRAYVILLE ST VANCOUVER B C	B A 3 VI 2 0571
WAITE JOAN CRAIG 3470 MCTAVISH ST APT 6 7 BROADWAY AVE APT 18 TORONTO ONT	M A 1 VI 5 7680	WALKER MICHAEL BARRY WILSON HALL 3807 VICTORIA AVE REGINA SASK	B ENG PHY 4 VI 4 0624
WAJS ISAAC PHILIP 1277 BERNARD AVE MTL 1671 GLENMONT RD CLEVELAND 18 OHIO USA	B ENG COM 5 CR 7 1744	WALKER PHILIP FREDERICK 3484 PEEL ST MTL OAKWOOD INN GRAND BEND ONT	M A 1 VI 4 4229
WAKKARY JAN ABEDNEGO 471 PRINCE ARTHUR ST W PARIKIBAWAH MENADO INDONESIA	B SC 3 VI 5 6684	WALKIW BOHDAN 2529 MOREAU ST MONTREAL 4 QUE	B ENG 1 LA 6 5290
WAKSBERG ARMAND L 8223 QUERBES AVE MONTREAL QUE	M SC 2 CR 2 0830	WALL ALBERT EDWARD BRITTAIR HALL 81 8TH AVE LA SALLE QUE	B ED P ED 1
WALCOT DONALD THOMAS 65 CURZON ST MONTREAL WEST QUE	B A 1 MU 4 2088	WALLACE BETTY ANN 154 BALLANTYNE N MONTREAL WEST QUE	B SC N 1 MU 1 3555
WALCOTT MICHAEL JAMES 58 BHERBROOKE ST APT 8 THE ROCK SPOONERS HILL ST MICHAEL BARBADOS W I	B COM 2 AV 8 4864	WALLACE DONALD RAYMOND BOX 150 MACDONALD COLLEGE 112 INDIANA DR SAULT STE MARIE ONT	PH D 2
WALDRON KEITH CLIFFORD 44 12TH AVE ROXBORO QUE	B ENG EL 4 MU 4 2776	WALLACE ELIZABETH J ROYAL VICTORIA COLLEGE C O CANADA STARCH CO CARDINAL ONT	B A 2
WALFISH ROMA BERYL 5840 MCSHANE AVE MONTREAL QUE	B A 1 RE 8 0309	WALLACE HUGH E MT BRUNO ASSOC CHAMBLY CO QUE	B ENG 2 OL 3 6330
WALKE LACEY 3490 BUTER ST MTL GOODLAND PLANTATION CHRIST CHURCH BARBADOS W I	MD CM 2 VI 5 3049	WALLACE JOHN KEITH DOUGLAS HALL 37 KIRK ST FARNHAM QUE	B ENG EL 3
WALKER ALLAN MALCOLM BRITTAIR HALL 527 LOGAN ST ST LAMBERT QUE	B SC AGR 4	WALLET FRED RUDZIER 1199 SUSSEX ST MONTREAL QUE	B ENG 1 WE 5 9263
WALKER BRIAN L 456 PINE AVE W MTL 304 VASEAL ST DRUMMONDVILLE QUE	B ENG 2	WALLIS ALAN EDWIN 5140 BEACONSFIELD AVE MONTREAL QUE	B ENG EL 3 MU 1 8757
WALKER BRUCE 63 TRENTON AVE TOWN OF MT ROYAL QUE	P E DIP 1 RE 1 1612	WALLIS WILLIAM GERALD 501 PINE AVE W MONTREAL QUE	MED DIPL 3 AV 8 7004
WALKER CAROLE A LAIRD HILL 1320 PASTEUR AVE BILLYRY QUE	2 TCHRS 2	WALMARK CARL D W 3478 MCTAVISH ST MTL 160 QUESEC ST GODERICH ONT	B A 3 VI 2 7412

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WALSH HENRY GEORGE 5095 HAMPTON AVE MONTREAL QUE	B A 2 HU 6 6328	WARSAWSKI JANUSZ 4750 PLAMONDON AVE APT 7 MONTREAL QUE	B ENG EL 3 RE 9 3069
WALSH PETER JAMES DOUGLAS HALL 12 ROBIN RD WAKEFIELD MASS USA	MD CM 1	WASEEM GERTRUD BOX 7 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	M A 3
WALTERS LAWRENCE G 419 PRINCE ARTHUR ST W 248 KING ST E BROCKVILLE ONT	MD CM 2 VI 9 3364	WASELIUS CARLEEN E 1105 CREVIER ST VILLE ST LAURENT QUE	B A 4 RI 7 8280
WANG I CHENG 2015 MCGILL COLLEGE AVE MRS E P TANG 6729 KESSEL ST FOREST HILLS NEW YORK N Y USA	PH D 2	WASSER LAWRENCE FRANK 3431 DRUMMOND ST MTL 150 CLARK RD BROOKLINE 46 MASS USA	B A 1 VI 9 0243
WANG PAUL YAO CHEUNG P O BOX 13 STA M MTL 10 MODY RD KOWLOON HONG KONG	R SC 3	WATANABE GRACE HIROKO ROYAL VICTORIA COLLEGE 949 HALSTON AVE NORTH KAMLOOPS B C	B SC 4 VI 2 0477
WAPNIAWSKI WILLIAM V 4878 ESPLANADE AVE MONTREAL QUE	B ENG EL 3 OR 9 5811	WATANABE HIROKO 3237 EVELYN ST VERDUN QUE	B SC 4 PO 8 5127
WARANICA KARL 752 BRAULT AVE VERDUN QUE	B ENG EL 4 PO 7 0472	WATANABE MAMORU 3237 EVELYN ST VERDUN QUE	PH D 1 PO 8 5127
WARBURTON FREDERICK E 6171 SHERBROOKE ST W APT 16 MONTREAL QUE	B SC 4 HU 1 8449	WATEROUS PATRICIA LOGAN ROYAL VICTORIA COLLEGE 15 INWOOD DR BRANTFORD ONT	B SC N 1 VI 2 0571
WARD CHARLES F 343 MARCELLE AVE ST LAMBERT QUE	B ENG 1 OR 1 9905	WATERS BARBARA ANNABELLE MACDONALD COLLEGE 251 MONTREAL ST SHERBROOKE QUE	3 TCHRS
WARD JOAN 3547 UNIVERSITY ST APT 3 MONTREAL QUE	PARTIAL VI 4 9085	WATIER ETHEL PATRICIA ROYAL VICTORIA COLLEGE 1650 GEORGE ST SHAWINIGAN QUE	B SC 1 VI 2 0571
WARD MARGARET ANN 4919 MARIETTE AVE MONTREAL 29 QUE	B A 3 HU 4 3741	WATKINS CHARLES G 6715 SOMERLEED AVE MONTREAL QUE	B SC 2
WARD PAMELA JOYCE 4919 MARIETTE AVE MONTREAL 29 QUE	PH D 2 HU 4 3741	WATSON JAMES IAN 5251 HINETON AVE APT 1 346 BRUNSWICK ST FREDERICTON N B	MD CM 4 HU 8 6404
WARDY BILHAM 5276 MAC MAHON MONTREAL 29 QUE	M A 3 HU 6 9559	WATSON JOHN RALPH 49 13TH AVE B LAVAL WEST QUE	B T M 2 NA 7 4187
WARHAFT ROSALIND EVE 3821 FOREST HILL APT 14 MONTREAL QUE	B SC 2 RE 3 4405	WATSON JOHN STUART 3485 MCTAVISH ST MTL 2 WINTER PL ST JOHN N NFLD	B ENG CIV 5
WARK RONALD LACHLAN M 4346 BEACONSFIELD AVE MONTREAL QUE	B ARCH 3 HU 6 1808	WATSON JENNIFER SCOTT 955 MONCRIEFF RD TOWN OF MT ROYAL QUE	3 TCHRS RE 8 5753
WARNER HUGH ALFRED MONTREAL GENERAL HOSP 38 ELLIOTT ROW ST JOHN N B	M SC 1	WATSON ROBERT ANTHONY 3660 PEEL ST APT 10 MTL 58 MONA RD KINGSTON 6 JAMAICA W I	B ENG CIV 4 VI 2 2489
WARNER RICHARD WESTON 3564 DUROCHER MTL THE OLD RECTORY STANTON NR BROADWAY WORCHESTER ENGLAND	B ENG 2	WATSON ROBERT LESTER R R 1 STE ANNE DE BELLEVUE QUE	B SC AGR 3
WARNER WENDY KATHLEEN MACDONALD COLLEGE 6355 DES ECORES ST MONTREAL QUE	3 TCHRS	WATT BARBARA ELLEN 10 BIRCH RD TERREBONNE HEIGHTS R R 3 MASCOUCHE QUE	B A 1
WARNES HECTOR 1025 PINE AVE W MONTREAL QUE	MED DIPL 2	WATT ROBERT DEAN BARNEY 3581 UNIVERSITY ST MTL 315 PLANEUF ST ST JOHN QUE	B ENG CIV 3 VI 9 1368
WARR BARBARA LUCY LLOYD STEWART HALL 1360 BROWN BLVD VERDUN QUE	B SC M EC 3	WATTERS WENDELL WALLACE 695 LAURENTIAN BLVD VILLE ST LAURENT QUE	MED DIPL 3 RI 7 9300
WARR DAVID HOWARD 1360 BROWN BLVD VERDUN QUE	B ENG 2 PO 8 7273	WATTERSON PAUL 548 PRINCE ARTHUR ST W 6550 MARINE CRES VANCOUVER B C	B SC 2 VI 2 0877

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WATTS DAVID 534 PRINCE ARTHUR ST W BRECK RD CHAPEL EN LE FRITH VIA STOCKPORT CHESHIRE ENGLAND	PH D 2 VI 2 0154	WEINBERG EDWARD 268 ST JOSEPH BLVD W MONTREAL 8 QUE	B SC 1 CR 7 7294
WATTS PATRICIA MARY ROYAL VICTORIA COLLEGE 931 ESQUIMAULT AVE WEST VANCOUVER B C	B A 2 VI 2 0847	WEINBERG VICKIE 23 LEGAULT ST 4645 CIRCLE RD MONTREAL QUE	3 TCHRS
WATTS REGINALD KEITH 108 3RD AVE S APT 3 ROXBORO QUE	B ED 1	WEINBERG YONAH LUCILLE 2312 BRINTON RD TOWN OF MT ROYAL QUE	B SC 4 CR 2 5518
WAX HERBERT LIONEL 543 CHESTER AVE TOWN OF MT ROYAL QUE	B ENG COM 5 RE 8 2855	WEINER JEWEL 4879 ISABELLA AVE MONTREAL QUE	B A 1 RE 7 8536
WAXMAN BLUMA 18 LYNCREFT RD HAMPSTEAD QUE	B SC 1 MU 9 7233	WEINER JOEL 517 DAVAR AVE OUTREMONT QUE	B SC 1 CR 2 3788
WAXMAN GERALDINE LAIRD HALL 2830 BRINTON RD MONTREAL QUE	2 TCHRS 1	WEINER MARILYN MACDONALD COLLEGE 4040 CITY HALL AVE MONTREAL QUE	3 TCHRS
WAXMAN MARVIN B M 5342 MACDONALD AVE MONTREAL QUE	MD CH 1 MU 6 2019	WEINER ROSE 517 DAVAR AVE MONTREAL 8 QUE	M B W 2 CR 2 3788
WEARING JANET CATHERINE ROYAL VICTORIA COLLEGE CUTLER ONT	B SC N 1	WEINLANDER GERARD HENDRIK 3660 DUBOCHER ST MONTREAL QUE	D D S 3 VI 9 5914
WEARING JOHN ROBERT 17 ABBOTSFORD AVE CHATEAUGUAY BASIN QUE CUTLER ONT	B ENG CH 3 OX 2 6160	WEINSTEIN FREDERICK 4710 DECARIE BLVD APT 42 MONTREAL QUE	B ENG MCH 5 MU 8 2027
WEAVER OLIVER K 3600 LINTON ST APT 97 NATAL B C	D D S 2 RE 9 9678	WEINSTEIN HARVEY MARVIN 5070 PONSARD AVE MONTREAL 29 QUE	B SC 1 MU 6 2842
WEAVER RALPH SHERMAN 3660 HUTCHISON ST APT 2 DOAKTOWN N B	PH D 3 AV 8 4658	WEINSTEIN MARTIN SUNNY 5611 CAMPDEN PL MTL 29 OAK ST ELMONT N Y USA	B SC 1 RE 9 7816
WEAVER WILLIAM S 3637 UNIVERSITY ST MTL 188 ROXBOROUGH DR TORONTO 5 ONT	B COM 4 VI 9 1736	WEINSTEIN PAUL RAPHAEL 5470 MOUNTAIN SIGHTS AVE MONTREAL QUE	B SC 2 MU 6 8983
WEBB DAVID CHARLES N 34 LAKESHORE RD BEACONSFIELD QUE	M A 1 OX 5 3237	WEIR BRYCE KEITH A 690 SHERBOOKE ST W MONTREAL QUE	MD CH 4 VI 2 1958
WEBB MICHAEL STANLEY 1441 DRUMMOND ST MTL 3155 WEST 14TH AVE VANCOUVER B C	B SC 3	WEISSBORD MERRILY ROSE MACDONALD COLLEGE 880 ANVERS AVE MONTREAL 15 QUE	B ED P ED 1
WEBER BARBARA 741 STUART AVE MONTREAL QUE	B A 3 CR 7 8809	WEISSER REGINALD 644 WISEMAN AVE OUTREMONT QUE	B ENG 2 CR 6 5233
WEBER EDMUND J 4580 BARCLAY AVE MONTREAL QUE	B ENG 2 RE 1 0680	WEISS BARBARA DAVIDOW 4310 DUPUIS AVE APT 23 MONTREAL QUE	M B D DIP RE 9 5219
WEBER JUDITH 741 STUART AVE OUTREMONT QUE	B A 1 CR 7 8809	WEISS CAROLYN 5386 GROVEHILL PL MONTREAL QUE	B A 1 MU 4 3293
WEBERSPIEL MAX 4859 HUTCHISON ST MONTREAL QUE	B ARCH 5 CR 9 0501	WEISS DAVID STEPHEN 475 63RD AVE L ABORD A FLOUFFE QUE	B ENG MCH 3 MO 1 4340
WEBSTER ELEANOR IRENE ROYAL VICTORIA COLLEGE 73 BALLANTYNE AVE N MONTREAL WEST QUE	B SC N 4 VI 2 0526	WEISS ETHEL 2780 WILLOWDALE AVE APT 7 MONTREAL QUE	B A 1 RE 8 3802
WEBSTER SUSAN MURIEL 621 CLARKE AVE MONTREAL QUE	B COM 3 WE 3 2820	WEISS GABRIELLE C 3051 8TH ST L ABORD A FLOUFFE QUE	MED DIPL 2 MU 1 7756
WECHSLER ANN 4755 PLAMONDON AVE APT 305 MONTREAL QUE	PH D 2 RE 7 7746	WEISS GORGE RUPPRECHT A 4200 DUPUIS AVE APT 12 MONTREAL 26 QUE	B ENG CH 5 RE 1 6378
WEIN MARCELI 866 STUART AVE MONTREAL 8 QUE	M SC 1 CR 9 8142	WEISS HARRIET MELAINE 3485 VAN HORNE AVE MONTREAL QUE	B A 1 RE 8 2846
		WEISS MARIANNE 8985 REIMS ST MONTREAL 11 QUE	B SC 1

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WEISS RONALD 4770 MACKENZIE AVE MONTREAL QUE	B ENG 1 RE 3 1186	WERNER BARBARA ANN 39 MONTE ST MARIE STE ANNE DE BELLEVUE QUE 6834 SOMERLED AVE MONTREAL QUE	3 TCHRS MED DIPL 2 PO 7 3846
WEISSFLOCH CARL FRIEDRICH 3547 STE FAMILLE ST MONTREAL QUE	M SC 1 VI 5 4447	WERRY JOHN SCOTT 1051 LECLAIR AVE VERDUN QUE	B A 1 RE 3 6150
WEISSHUBH PETER 69 LYNWOOD DR BEACONSFIELD QUE	B ENG MCH 3 OX 5 9486	WERTHEIMER MYRNA 4500 PLAMONDON MONTREAL QUE	B SC 2 HU 8 5157
WEISSMAN MORIA 7921 WAVELL RD COTE ST LUC QUE	B A 3 HU 8 3018	WESTAWAY JANET CROMAR ROYAL VICTORIA COLLEGE 14 INWOOD DR BRANTFORD ONT	B A 1 VI 2 0597
WEISZ MONICA 735 STUART AVE OUTREMONT QUE	B A 1 CR 9 9164	WESTBURY IAN WALTER 4564 PATRICIA AVE MONTREAL 28 QUE	B C L 3 HU 6 7855
WEITZ ABRAHAM 640 WISEMAN AVE MONTREAL QUE	B ENG 1 CR 9 2793	WESTMAN HERBERT A J WILSON HALL BOX 302 SHAWINIGAN QUE	B ENG EL 3 VI 4 0624
WELBOURN PATRICIA M ROYAL VICTORIA COLLEGE 11032 125TH ST EDMONTON ALTA	B A 4 VI 2 0526	WESTON CAMILLA ROYAL VICTORIA COLLEGE 25 SOUTH ST LONDON W 1 ENGLAND	B A 4 VI 2 0334
WELCH DONALD ERNEST 3508 DUROCHER ST MTL 466 RIVERDALE AVE OTTAWA ONT	B ENG CIV 4 VI 9 4352	WEX SAMUEL 1360 BERNARD AVE W APT 6 MONTREAL QUE	B A 2 CR 2 8610
WELDON ANN DALE 17 RENFREW AVE WESTMOUNT QUE	B A 2 HU 1 4930	WEXLER MARVIN JOHN 4474 CIRCLE RD MONTREAL QUE	B SC 3 RE 8 8224
WELDON PETER R 288 DE L EPEE AVE OUTREMONT QUE	PARTIAL CR 9 2088	WEXLER SHEILA 4430 HARVARD AVE MONTREAL QUE	B A 3 HU 6 3048
WELL ARNOLD D 2515 VAN HORNE AVE APT 8 MTL 1505 33RD AVE S W CALGARY ALTA	B SC 3 RE 3 4821	WHALEN JEAN MARIE ROYAL VICTORIA COLLEGE 22 BAILEY ST LAWRENCE MASS USA	B SC 3 VI 2 0847
WELLEN MORTON FRANK 866 DOLLARD AVE OUTREMONT QUE	B ARCH 4 CR 9 0364	WHALEN JOHN BURTON 3621 LORNE CRES MTL 115 HIGHLAND AVE PIEDMONT CALIF USA	MD CM 3 VI 4 6086
WELLER SYDNEY LESLIE 5739 ESPLANADE AVE MONTREAL QUE	B SC 2 CR 1 6377	WHEELER CLAIRE MAUREEN ROYAL VICTORIA COLLEGE 71 FERN ST LAWRENCE MASS USA	B SC 3 VI 2 0847
WELLS SYDNEY A 3485 MCTAVISH ST MTL BOX 44 GRENADE W I	B ENG 2 VI 9 0141	WHELOCK OWEN GEORGE BRITTAIN HALL 111 RAILROAD ST ROCK ISLAND QUE	H S D DIP MD CM 3 WE 7 3722
WELSTED JOHN E 539 PINE AVE W MONTREAL QUE	M SC 2 VI 4 6311	WHELAN DONALD THOMAS 4481 WESTERN AVE WESTMOUNT QUE	M SC 1
WELTON JULIET STREETT ROYAL VICTORIA COLLEGE 1015 WOODBINE PL LAKE FOREST ILL USA	B A 2 VI 9 0120	WHETTER JENNIFER MARGARET MACDONALD COLLEGE THELSPORD WARWICK ENGLAND	B A 1 WE 7 6934
WELTZL MARIA A M O 4176 WILSON AVE MONTREAL QUE	B ARCH 2 HU 1 4200	WHITE CAROLINE E 3072 THE BOULEVARD MONTREAL 6 QUE	PARTIAL
WENNBERG EMMA FRANCA 456 PINE AVE W APT 37 2347 CASCADE WAY LONGVIEW WASH USA	MD CM 3 VI 9 9716	WHITE ENID GERALDINE 8 MAPLE ST P O BOX 94 ST PAUL L ERMITE QUE	MUS B 3 WE 7 5614
WENNBERG JOHN EDMONT 456 PINE AVE WEST MTL 2347 CASCADE WAY LONGVIEW WASH USA	MD CM 3 VI 9 9716	WHITE GORDON C 4326 SHERBROOKE ST W APT 36 MTL 115 NORTH RIVER RD CHARLOTTETOWN P E I	PARTIAL
WENSLEY ROLAND JAMES 417 WALPOLE AVE MONTREAL 16 QUE	M A 1 RE 7 3082	WHITE M EDWARD 42 ARDEEN AVE MCMASTERVILLE QUE	
WERENFELS JUDITH ANN 7 THORNHILL AVE MONTREAL QUE	B A 3 WE 5 8086		
WERLEMAN MICHAEL GUSTAV 5265 BEACONSFIELD AVE MONTREAL QUE	B ARCH 4		

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NAME ADDRESS	COURSE & YEAR TEL. NO.	NAME ADDRESS	COURSE & YEAR TEL. NO.
WHITE NANCY JEAN ROYAL VICTORIA COLLEGE 213 KINGSWAY AVE WINNIPEG MAN	B A 3	WHITTAKER HYACINTH V 4535 GRAND BLVD APT 4 MONTREAL QUE	M SC 1 HU 4 6397
WHITE NORMAN MARK 5210 CUMBERLAND AVE MONTREAL QUE	B A 2 HU 4 8621	WHITTAKER WILLIAM G 5374 COOLBROOK AVE MONTREAL 29 QUE	B ENG 2 HU 9 1203
WHITE PETER GERALD 3072 THE BOULEVARD MONTREAL 6 QUE	B A 4 VI 9 5995	WHITTALL ALAN C 76 ST LOUIS AVE BEAUREPAIRE QUE	B ED 2 OX 5 6148
WHITE ROBERT GEORGE 555 MERCIER AVE ST LAMBERT QUE	2 TCHRS OR 1 0747	WHITTALL ANTHONY E 76 ST LOUIS AVE BEAUREPAIRE QUE	B ED 2 OX 5 6148
WHITE ROGER W B 3091 THE BOULEVARD MONTREAL QUE	B A 3 WE 5 0711	WHITTEMORE NEWELL BLAIR 135 NORTHVIEW AVE MONTREAL WEST QUE	MD CM 4 HU 9 7685
WHITE TAMARA 21 LAQAULT AVE STE ANNE DE BELLEVUE QUE 6133 MACDONALD AVE MONTREAL QUE	3 TCHRS	WHITTINGHAM MAURICE R DOUGLAS HALL 21 ROSEWOOD AVE JOHNSTOWN NEW YORK USA	B A 1
WHITE WILLIAM 3681 HUTCHISON ST APT 36 MTL 219 HOPE ST N PORT HOPE ONT	PH D 2	WIEGAND FREDERICK MARTIN 3566 LORNE AVE MONTREAL QUE	MD CM 4 VI 5 5841
WHITE WILLIAM R BRITTAIN HALL 142 SHERWOOD DR OTTAWA ONT	B ED P ED 2	WIENER ALLAN 5602 DUNMORE AVE MONTREAL QUE	B SC 1 RE 7 4333
WHITEHEAD FREDERICK F 3508 UNIVERSITY ST MTL R R 2 KNOWLTON QUE	B SC 2 VI 4 0752	WIENS RODNEY DAVID 356 PINE AVE W MTL 701 E PUTMAN PORTERVILLE CALIF USA	MD CM 3
WHITEHEAD JOHN W 3310 COVER ST APT 25 MTL BOX 465 SMITHFIELD N C USA	D D S 3	WIESENFELD MARCUS JACOB 6191 COTE ST LUC RD APT 205 HAMPSTEAD QUE	B C L 3 HU 8 7712
WHITEMAN GABRIEL 2100 MARLOWE AVE MTL 3295 RIDGEWOOD AVE APT 30 MONTREAL QUE	PARTIAL HU 4 3571	WIESTNER ELEANOR L 2160 LAVAL VILLE ST LAURENT QUE	M A 2
WHITESIDE ANN JENNIFER 20031 LAKESHORE RD BAIE D'URFEE QUE	2 TCHRS 1	WIGHTMAN JEANNIE MARLENE STEWART HALL 3 VICTORY BLVD BOX 305 BEDFORD QUE	3 TCHRS
WHITING LAURENCE VERNON 1965 CONNAUGHT VILLE ST LAURENT QUE	B SC 4 RI 7 7776	WIGHTON MARY LOUISE 723 COVENTRY DR BAIE D'URFEE QUE	B ED 1
WHITING MARY JANE ROYAL VICTORIA COLLEGE POINT OF VIEW OAKRIDGE RD CONSTANT SPRING P O JAMAICA W I	B SC N 3 VI 2 0180	WIGLE GERALD E DOUGLAS HALL 164 MILL ST WATERDOWN ONT	B COM 2 VI 4 0977
WHITMAN GEORGIA ELIZABETH 135 WESTMINSTER AVE MONTREAL WEST QUE	B A 3 HU 6 9728	WIGRAM PETER HALLAM 3484 DUROCHER ST APT 312 MONTREAL QUE	B A 3 VI 9 1008
WHITNEY ALEXANDER 590 OUTREMONT AVE APT 46 MONTREAL QUE	B ENG 2 CR 4 7827	WILANSKY MELVIN 345 DUFFERIN RD HAMPSTEAD QUE	B COM 4 HU 4 6365
WHITNEY DONALD DAVID A 3473 UNIVERSITY ST MTL ABBOTSFORD QUE	B C L 3	WILBY ELAINE JOAN 1027 BALL AVE MONTREAL 15 QUE	B ED 3 CR 6 9986
WHITNEY PETER ROBERT P MACDONALD COLLEGE ABBOTSFORD QUE	B SC AGR 4	WILFORD SUSAN MARY 3638 DUROCHER ST APT 3 12A RUSSELL ST E LINDSAY ONT	GRAD DIP 1 AV 8 6466
WHITSON DONALD ALBERT BOX 41 RIVERSEND L ST JOHN QUE	2 TCHRS	WILKENS BEVERLY F STEWART HALL 51 ST LOUIS AVE LAKESIDE HEIGHTS PTE CLAIRE QUE	2 TCHRS 2
WHITSON FRANK JOHN BRITTAIN HALL BOX 41 RIVERSEND L ST JOHN QUE	3 TCHRS	WILKIE BRUCE D 17 MELBOURNE AVE TOWN OF MT ROYAL QUE	B SC 2 RE 3 9024
WHITTAKER GERALD FITZROY 3594 ST FAMILLE ST MONTREAL QUE	B A 4 AV 8 9713	WILKIE DONALD BRUCE 531 LANEDOWNE AVE MONTREAL QUE	B C L 3 WE 3 9683
		WILKINS ANTHONY DEAN DOUGLAS HALL 188 WEMBLEY DR SUDBURY ONT	B A 1 VI 4 0799

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WILKINSON JOAN MARJORIE 5147 EARNSCLIFFE AVE MONTREAL QUE	B SC 3 MU 1 2207	WILLIAMS TRYON M 3581 UNIVERSITY ST MTL 13101 104TH AVE EDMONTON ALTA	B ENG MCH 3 VI 9 1368
WILKINSON JOHN G 5105 COTE ST LUC APT 14 WYNDCLIFF HIGHGATE GARDENS ST MICHAEL BARBADOS	B COM 2 HU 8 8394	WILLIAMSON KATHLEEN ELENA ROYAL VICTORIA COLLEGE APARTADO 3478 HABANA CUBA	B A 3 VI 9 0858
WILKINSON MARION JANE 3980 SHERBROOKE ST E APT 32 MTL 4 ANGLESEY BLVD APT 203 ISLINGTON ONT	M SC 1 CL 4 3944	WILLIAMSON NICHOLAS F M 1000 MCGREGOR ST APT 204 MORTIMER HILL MORTIMER BERKE ENGLAND	PARTIAL
WILLIAMS BARBARA M STEWART HALL 625 FIRST AVE S KENORA ONT	B ED P ED 1	WILLIAMSON ROSS JAMES 118 ST MICHAEL ST CHATEAUGUAY QUE	B A 1 OX 2 4542
WILLIAMS BERTRAM MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	B SC AGR 3	WILLIS LORNE ALAN 563 GROVENOR AVE WESTMOUNT QUE	B A 2 HU 4 5416
WILLIAMS DAVID ARNOTT 3975 CAVENDISH BLVD APT 62 MONTREAL QUE	B SC 4 HU 9 2871	WILLOUGHBY HENRY WELLS 366 SHERBROOKE ST W APT 12A MTL 265 WILLIAM ST PEMBROKE ONT	MD CM 2
WILLIAMS DAVID HOTHERSALE 3656 DUROCHER ST APT 2 SANTANESIA ESTADO DU RIO BRAZIL	B COM 4 AV 8 2680	WILLOUGHBY DIANE ARDIS MACDONALD COLLEGE 232 AVENUE RD KINGSTON ONT	B SC M EC 1
WILLIAMS DESMOND 1563 MCGREGOR AVE LLOYDMINSTER ALTA	M ENG 1 WE 3 0837	WILLOWS GLEE FRAAS MACDONALD COLLEGE 163 BEDBROOKE AVE MONTREAL WEST QUE	2 TCHRS 1
WILLIAMS ELDON STEPHEN V 3689A HUTCHISON ST MTL CASTRIES ST SCARBOROUGH TOBAGO W I	MD CM 4 VI 9 7809	WILLOWS JUDITH JANE ROYAL VICTORIA COLLEGE 1476 PRINCESS ST CORNWALL ONT	B A 1 VI 2 0829
WILLIAMS FREDERICK B 149 DIEPPE AVE PTE CLAIRE QUE	B SC 2 OX 5 3008	WILSON BARRY NORMAN 1441 DRUMMOND ST MTL 9 KINGWAY CRES TORONTO 18 ONT	B COM 2
WILLIAMS GERALD BARRY M 3653 UNIVERSITY ST MTL FOUR ACRE BRENCHELY KENT ENGLAND	B COM 4 VI 2 2073	WILSON CARL R 2067 UNIVERSITY ST APT 4 5 HENDERSON ST HUNTINGDON QUE	B ARCH 2 VI 5 3969
WILLIAMS GWENYTH L STEWART HALL 4335 MONTCLAIR AVE MONTREAL QUE	B SC H EC 2	WILSON DAVID A 1455 DRUMMOND ST APT 309 CDN EMBASSY COPENHAGEN DENMARK	B SC 2 VI 5 7483
WILLIAMS HALLOCK 1500 QUIVET ST APT 47 C O CORREA CROTON DAM RD OSINING N Y USA	MD CM 3 RI 7 9555	WILSON DONNA MELANIE 77 PIELDEEND AVE DRUMMOND PARK BEACONSFIELD QUE	B A 1 OX 7 4232
WILLIAMS JAMES GERALD BRITAIN HALL SITE 23 BOX 13 ST JOHNS W NFLD	B SC AGR 4	WILSON DOUGLAS RALPH 1441 DRUMMOND ST MTL RIDGE RD HUDSON HEIGHTS QUE	B COM 1 VI 9 4171
WILLIAMS JOHN 194 SALABERRY BLVD CHATEAUGUAY HQTS QUE	B CL 1 OX 2 2036	WILSON EDWARD MATTHEW BRITAIN HALL 138 MAXFIELD AVE KINGSTON 10 JAMAICA W I	B SC AGR 1
WILLIAMS JOSEPH P DOUGLAS HALL OLD TROY RD WAPPINGERS FALLS NEW YORK N Y USA	B SC 1	WILSON ELIZABETH VICTORIA 1640 LAUDIE AVE OUTREMENT QUE	M A 3
WILLIAMS RICHARD N 102 ARROWHEAD CRES VALOIS QUE	B ED P ED 1 OX 7 0259	WILSON FREDERICK CHARLES 3300 RIDGEWOOD AVE APT 48 MONTREAL QUE	M A 3 RE 3 7362
WILLIAMS ROBERT OWEN 434 MERCILLE AVE ST LAMBERT QUE	B COM 4 OR 1 7818	WILSON GEORGE HENRY 2039 MCGILL COLLEGE AVE APT 15 MONTREAL QUE	M A 1
WILLIAMS RONALD F 3975 CAVENDISH BLVD MONTREAL QUE	B ARCH 2 HU 9 2871	WILSON GRANT E 1563 MCGREGOR MTL 581 JARVIS ST TORONTO ONT	B SC 1
WILLIAMS RUSSEL MILES 23 WINDSOR AVE WESTMOUNT QUE	B ENG CH 4 HU 6 8185	WILSON HOWARD JAMES 245 RIVERSIDE DR ST LAMBERT QUE	PARTIAL OR 1 7608
WILLIAMS THOMAS ROBERT 418 MORTLAKE AVE ST LAMBERT QUE	B SC 4 OR 1 5157	WILSON KATHARINE ANN ROYAL VICTORIA COLLEGE 55 SELKIRK AVE HUDSON QUE	B A 2 VI 2 0495

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WILSON KEITH B 1 WOODLAND AVE BEAUREPAIRE QUE	B SC OX 5 3849	WISBERG MORTY 2660 BRINTON RD MONTREAL QUE	B ENG CIV 3 RE 1 4045
WILSON MARJORIE A 40 EASTBOURNE BEACONSFIELD QUE	B A OX 5 2316	WISMAN FRED 4895 KENT AVE MONTREAL QUE	B SC 4 RE 3 5549
WILSON NORMA JEAN 79 MELBOURNE AVE TOWN OF MT ROYAL QUE	B SC RE 7 4362	WISMAN MIRIAM H 4472 DUPUIS APT 23 MTL 490 BURROWS AVE WINNIPEG 4 MAN	PH D 4 RE 7 2161
WILSON PAUL HERBERT 3506 UNIVERSITY ST MTL R D 1 BOX 376 ASBURY NEW JERSEY USA	B ENG VI 4 0624	WISSE RUTH ANN 2376 MADISON AVE MONTREAL QUE	B SC P OY 1 HU 8 4122
WILSON SUSAN ANN 7460 GLENWOOD AVE MONTREAL 16 QUE	B A RE 8 9588	WITELSON HENRY CHAIM 3107 LACOMBE AVE MONTREAL QUE	MD CM 1 RE 3 1808
WILSON WILLIAM F 5401 DUQUETTE AVE MONTREAL QUE	B COM HU 4 3481	VITKOV BARBARA DEENA 2051 ATLHNE RD TOWN OF MT ROYAL QUE	M S W 1 RE 7 7591
WILSON WILLIAM HENRY M 110 MONTROSE AVE VALOIS QUE	B ENG CH OX 7 0404	WITTENBERG ALICE SANDRA 758 LEXINGTON AVE WESTMOUNT QUE	B A 3 HU 6 6249
WINDISCH STEPHEN JOHN 10318 ESPLANADE AVE MONTREAL 12 QUE	B ENG CIV 4	WLODEK GEORGE K 4727 VICTORIA AVE MTL 297 5TH AVE OTTAWA ONT	M SC 1 HU 2 3007
WINDSOR GEORGE F 480 WOOD AVE WESTMOUNT 6 QUE	B ENG WE 5 9373	WOHL STANLEY 2983 SOISSONS AVE MONTREAL QUE	B SC 1 RE 7 5253
WINDSOR FLEYDELL S ROYAL VICTORIA COLLEGE C O WERNER TEXTILE CONSULTANTS LTD 1430 BROADWAY NEW YORK 18 N Y USA	B A 1	WOHLER HENRY FRANCIS 1324 BROWN BLVD VERDUN 19 QUE	B ENG 1 PO 8 7081
WINKLER CAROLE CHRISTINE 141 EASTON AVE MONTREAL 28 QUE	B SC 4 HU 6 1867	WOLANYK MICHAEL ALEXANDER 1152 MANNING AVE VERDUN QUE	B ENG CH 5 PO 7 9127
WINN CHRISTOPHER J 757 UPPER BELMONT AVE WESTMOUNT QUE	B SC 2 HU 4 4589	WOLF ANNE C M 5645 15TH AVE MONTREAL 36 QUE	B SC P OT 2 RA 7 8571
WINN NEAL EDWARD 3741 HUTCHISON ST APT 3 MTL 60 HIGHLAND ST WOONSOCKET R I USA	MD CM 1 VI 4 8935	WOLF KARL GEORGE 5645 15TH AVE MONTREAL 36 QUE	B A 4 RA 7 8571
WINROW KEITH E 146 PERCIVAL AVE MONTREAL WEST QUE	B COM HU 9 2712	WOLF MONICA EVA 4365 WESTHILL AVE MONTREAL QUE	B A 2 HU 6 3882
WINTER LIONEL DONALD S 460 31ST AVE APT 29 VILLE LABALLE QUE	M SC DO 5 0398	WOLFE HOWARD L 3121 TRAPALGAR HEIGHTS MONTREAL QUE	B ENG 2 WE 3 6136
WIRTH ALFRED GEORGE F WILSON HALL 124 UPTON RD SAULT STE MARIE ONT	B A VI 4 0624	WOLFE RUBY 4255 MAPLEWOOD AVE MONTREAL 26 QUE	B SC N 1 RE 8 9596
WIRTH CARL G 2080 JEANNE MANCE ST APT 8 MTL MOORE'S FORKS N Y USA	D D S VI 9 6820	WOLFF BRUCE ROBERT 3460 DUROCHER ST MTL 168 HAMILTON ST EAST ORANGE N J USA	MD CM 2
WIRTZ SUSAN JANE ROYAL VICTORIA COLLEGE 39 ACADEMY AVE E WEYMOUTH 89 MASS USA	B SC VI 2 0597	WOLHUTER LOUIS E 1500 STANLEY ST APT 623 P O BOX 51 KINROSS TVL SOUTH AFRICA	PH D 3 AV 8 5504
WISE RHODA MARGOLICK 5032 CLANRANALD AVE MONTREAL QUE	B A HU 8 7348	WOLLMAN ARNOLD MORTIMER 874 STUART AVE MONTREAL QUE	B SC 1 CR 6 8496
WISE RICHARD MARTIN 5900 MACDONALD AVE HAMPSTEAD QUE	B COM HU 9 2534	WLOFESKY GLORIA 6456 MACDONALD AVE HAMPSTEAD QUE	B SC 1 HU 6 5525
WISE SHEILA LAIRD HALL 4667 CARLTON AVE MONTREAL QUE	3 TCHRS	WLOHMEN JACOB 2048 METCALFE MTL 806 MONK AVE QUEBEC CITY QUE	B A 2 VI 2 0940
WISBERG ALLAN LAWRENCE 728 MCEACHRAN AVE OUTREMONT QUE	B SC CR 2 3414	WONG ALBERT W Y 2062 JEANNE MANCE ST MTL 5 HOK SZE TER 2ND FL HONG KONG	B ENG EL 4 VI 2 0377
		WONG BETTY WING LIM 405 PRINCE ARTHUR ST APT 8 MTL 160 WATERLOO RD HONG KONG	M S W 1 AV 8 2939

SUPPLEMENT

Where two addresses are given, the second is the home address.

NAME ADDRESS	COURSE & YEAR TEL. NO.	NAME ADDRESS	COURSE & YEAR TEL. NO.
WONG CALVIN ANTHONY 3474 MCTAVISH ST APT 7 107 SUNDOWN CRES KINGSTON 10 JAMAICA W I	B ENG CIV 3 VI 2 0805	WONGHIRAN NITTAYA 3449 PEEL ST MTL 39 CHAREONPRATATE RD LAMPANG THAILAND	GRAD DIP 1 VI 4 0722
WONG CHIN YU 3575 SHUTER ST MTL 139 CAINE RD 2ND FL HONG KONG	B ENG 1	WOO ARTHUR KOON MUN DOUGLAS HALL 55 CONDUIR RD HONG KONG	MD CM 3
WONG CLIFFIN C F THOMAS 4825 COTE ST CATHERINE APT 21 MONTREAL QUE	B ARCH RE 1 1660	WOO YAN CHU ROYAL VICTORIA COLLEGE 161 BEN SINH DONG CHOLON SUD VIET NAM	B SC 3 VI 2 0847
WONG DOUGLAS GRANT 3467 SIMPSON ST MTL 165 GLOUCESTER ST OTTAWA 4 ONT	D D S 4 WE 3 0296	WOOSE TESNAGER 3816 LORNE AVE MTL P O B 105 ADDIS ABABA ETHIOPIA	M B W 1 VI 9 9944
WONG EDWARD GORDON 3438 DUROCHER ST MTL 10 FOSTER AVE MONTEGO BAY JAMAICA W I	B ENG 1 VI 4 0415	WOOD CAROL ANN 1433 BISHOP ST APT 8 MTL 17 WINSTON RD ST CATHARINES ONT	GRAD DIP 1 VI 5 0533
WONG HERBERT YUN 215 ONTARIO ST APT 16 542 EAST 21ST ST OAKLAND 6 CALIF USA	D D S 2	WOOD CHARLES LEONARD 990 47TH AVE LACHINE QUE	B ENG EL 3 ME 7 0923
WONG JOSEPH YIK NANG 3512 SHUTER ST MTL 30 FORT ST 1ST FL NORTH POINT HONG KONG	B SC 2	WOOD HELEN M ROYAL VICTORIA COLLEGE 37 ESDRAS PL RIVERSIDE ONT	B SC 2 VI 9 0120
WONG KA NIN BERNARD 3815 JEANNE MANCE ST APT 5 MTL 108 GLOUCESTER RD 1ST FL HONG KONG	B ENG PHY 3	WOOD JAMES MICHAEL P 3260 RIDGEWOOD AVE APT 14 MTL APARTADO 5171 MIRAFLORES LIMA PERU	B ENG EL 4 RE 8 7344
WONG KAI KWONG 533 PRINCE ARTHUR ST W APT 2 MTL 3 KOTEWALL RD TOP FL HONG KONG	B SC 2	WOOD WILLIAM ALFRED L 421 MONMOUTH AVE TOWN OF MT ROYAL QUE	B ENG 1 RE 8 7705
WONG MARCUS YAU KEE 1962 ST LUC ST APT 8 MTL 320 KING S RD 3RD FL HONG KONG	B SC 4	WOODBURN JOHN DAVID BRITTAIN HALL R R 1 BOX 142 CYRVILLE ONT	B SC AGR 1
WONG PASCAL 3437 PEEL ST APT 12 MONTREAL QUE	B SC 2 VI 4 0027	WOODHOUSE CHARLES F 3473 UNIVERSITY ST MTL 55 CHESTER ROW LONDON S W I ENGLAND	PARTIAL VI 9 1791
WONG SAU WAI 3610 DUROCHER AVE APT 9 7 COMFORT TERR KING S RD HONG KONG	B ENG CH 5 VI 9 5035	WOODLEY PAGE FRANK A 12265 ST PIERRE BLVD ST GENEVIEVE QUE	M A 1 MA 6 5483
WONG TAT LUN E 3712 JEANNE MANCE ST APT 4 MTL 13 FUK LO TSUM RD 1ST FL KOWLOON HONG KONG	B SC 3 VI 5 6014	WOODMAN RONALD A BRITTAIN HALL P O BOX 211 NEW CARLISLE QUE	B ED 2
WONG THOMAS DING MING 3507 UNIVERSITY ST MONTREAL QUE	B COM 3	WOODS STEPHEN FRANCIS R 30 EASTON AVE MONTREAL WEST QUE	B A 2 HU 4 5737
WONG TOM LAUNG QUONG 1458 MACKAY ST MTL 278 E 18TH AVE VANCOUVER 10 B C	D D S 2	WOOLGAR PENNY M LAIRD HALL 286 ELIZABETH CIRCLE ROSEMERE QUE	B ED 2
WONG WAI CHOW DAVID 2049 MCGILL COLLEGE AVE APT 8 MTL 144 WING LOK ST W 2ND FL HONG KONG	B ENG 2	WOOLNUGH KELVIN V 355 OLIVIER AVE WENT 27 TEDDINGTON PK TORONTO ONT	B A 1
WONG WINSTON A 3474 MCTAVISH ST APT 7 135 BARRY ST KINGSTON JAMAICA W I	B ENG 2 VI 2 0805	WOONTON ELIZABETH M L 7400 RUE DE TILLY MONTREAL 16 QUE	B A 3 RE 7 3085
WONG YUM KONG 3581 LORNE AVE APT 4 MTL 104 PRINCE EDWARD RD 1ST FL KOWLOON HONG KONG	B SC 2	WORONKO STANLEY P 6920 80TH AVE MONTREAL 36 QUE	B SC 1 RA 2 7504
		WOZAR PEARL STEWART HALL 525 GRATTON ST VILLE ST LAURENT QUE	B ENG EL 3 GL 9 3385
		WRAY ROBERT JOHN DOUGLAS HALL EAST BULLIVAN MINES VAL D OR QUE	M B D DIP B SC 3 VI 5 1471

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WREDDEN GABRIELLE LOUISE 4370 GRAND BLVD APT 4 MONTREAL QUE	B A 1 HU 6 3002	YAM YUEN CHEONG 1440 CRESCENT ST APT 6 MTL 5 DRAGON TERRACE 2ND FL CAUSEWAY BAY HONG KONG	B COM 4
WREN PETER BARRY C 3458 DUROCHER ST MTL MONTE ALTAI 115 F LOMAS 10 MEXICO D F MEXICO	B COM 3	YANOFKY ANNABELLE 14 BROWN ST STE ANNE DE BELLEVUE QUE 5941 HUTCHISON ST MONTREAL QUE	3 TCHRS
WREN SIMON FRANCIS G 3491 STANLEY ST APT 2 MONTREAL QUE	MD CM AV 8 7834	YANOFKY SANDRA FRANCES 5625 CANTERBURY AVE MONTREAL QUE	B A 2 RE 8 8342
WRIGHT CHARLES ARTHUR 5867 MACDONALD AVE MONTREAL QUE	B SC 2 RE 1 4472	YANOVER BEVERLY J ROYAL VICTORIA COLLEGE 196 E BRIDGE ST BELLEVILLE ONT	B A 2 VI 2 0180
WRIGHT JAMES HUBERT 1500 STANLEY ST APT 518 40 CHURCH ST GANANOQUE ONT	B ENG 1	YAP JAMES ADOLPHUS 3438 DUROCHER ST MTL 15 CHURCH ST MONTEGO BAY JAMAICA W I	B SC 1 VI 4 0415
WRIGHT JOAN BEATRICE 708 UPPER ROSLYN AVE WESTMOUNT QUE	B SC 1 HU 6 8036	YAPHE ANDREA 570 LAKESHORE RD BEAUREPAIRE QUE	H S D DIP OX 5 6986
WRIGHT MARTIN SEYMOUR 4920 CIRCLE RD MONTREAL QUE	B COM 1 HU 1 5949	YAPHE PAUL AARON 570 LAKESHORE RD BEAUREPAIRE QUE	B A 1
WRIGHT NICHOLAS A H DOUGLAS HALL 18 HOURIT ST LONDON W I ENGLAND	B COM 2 VI 2 7548	YAPP PETER RAYMOND 7282 SHERBROOKE ST W APT 4 MONTREAL QUE	B ENG MCH 5 HU 1 2308
WRIGHT PENELOPE ANNE ROYAL VICTORIA COLLEGE 1695 PINE CRES VANCOUVER B C	B A 2 VI 2 0113	YAROSKY HARVEY WILLIAM 5590 LEGARE APT 4 MONTREAL QUE	B C L 2 RE 3 1165
WULLNER RONALD 346 HAWTHORNE AVE LONGUEUIL QUE	B C L 1 OR 4 4148	YATES FRANCIS ADRIAN M DOUGLAS HALL THE WOOD GODSALL WOOD WOLVERHAMPTON ENGLAND	B SC 1
WUSE ANSAH OSEI 484 PRINCE ARTHUR ST W C O KWAME DAPAAM HOUSE NO 0 1 2 BLOCK 7 ASHANTI NEW TOWN KUMASI GHANA	B ENG 2	YATES IAN ROBERT MACDONALD COLLEGE SHORE HALL CORNISH HALL END NEAR BRAINTREE ESSEX ENGLAND	B SC AGR 1
WYANT JOHN D 4343 MAYFAIR AVE MONTREAL QUE	MD CM 2 HU 4 0964	YATES JOHN B 419 PRINCE ARTHUR ST MTL 5 YATES AVE CORNWALL ONT	B COM 1 VI 9 3364
WYGNANSKI JERZY ISRAEL 3833 OXFORD AVE MTL 117 WEIZMAN ST TEL AUW ISRAEL	B ENG MCH 4 HU 9 7132	YAU MICHAEL YUK MAN 3509 HUTCHISON ST APT 503 MTL 24 A SHAN KWONG RD HONG KONG	B ENG EL 4
WYNTER OLIVE INVERSE 3520 CLARKE ST MTL 11 WEXFORD RD KINGSTON JAMAICA B W I	B SC 1 VI 5 2369	YEE HENRY 460 CRAIG ST E MONTREAL QUE	B ENG PHY 3
X		YEE YUN FON 3634 ST FAMILLE AVE MTL 11 MEIKING ST 7TH FL TOKWA WAN KOWLOON HONG KONG	B ENG CIV 4
XENOS JOHN 3511 SHUYER ST APT 2 MTL 6147 DUROCHER AVE OUTREMONT QUE	MD CM 1 OR 9 6419	YELIN FRANK SHEPHERD 660 LANSDOWNE AVE WESTMOUNT QUE	B SC 4 HU 8 8030
Y		YEN GEORGE 3500 DUROCHER ST APT 5 115 THE PEAK HONG KONG	M ENG 1 VI 5 0596
YACKMIN ROBERT 4446 WILSON AVE MONTREAL QUE	B A 3 HU 8 8268	YEN SHI PING BERNARD 3517 HUTCHISON ST APT 9 303 PRINCE EDWARD RD 2ND FL KOWLOON HONG KONG	B SC 1 VI 9 0109
YALOVSKY SHAINDEL 5105 KING EDWARD AVE MONTREAL QUE	B SC 1 HU 9 8398	YEOMAN ANNE LAIRD HALL 1268 ROLLAND AVE VERDUN QUE	2 TCHRS 1
YAMPOLSKY EVELYN SANCJ 3943 CARLTON AVE MONTREAL QUE	B A 1 RE 3 1918		

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NAME ADDRESS	COURSE & YEAR TEL. NO.	NAME ADDRESS	COURSE & YEAR TEL. NO.
YETTER ALLAN SHERWOOD 52 RUSSEL ST TOWN OF MT ROYAL 1011 UNIVERSITY AVE ROCHESTER N Y USA	B ENG MCH 3	YOUNG RUSSELL M 3508 UNIVERSITY ST MTL C O MANSE DUNDEE QUE	B D 2 VI 5 4873
YEUNG EDDIE 3760 LINTON AVE APT 4 491 KINGS RD 1ST FL HONG KONG	D D 2 RE 3 1325	YOUNG SUSAN M ROYAL VICTORIA COLLEGE 33 TUNSTALL AVE BENNEVILLE QUE	B SC 2 VI 2 0495
YEUNG YIN CHING 3504 PARK AVE APT 15 MONTREAL QUE	MED DIPL AV 8 1980	YOUNG WILLIAM ARMSTRONG 1475 PAINTER CIRCLE VILLE ST LAURENT 1105 LAURENTIDE AVE QUEBEC CITY QUE	B A 3
YEVCHAK MARY ETHEL 1261 BEAULIEN MTL 39 SOUTH HILLSIDE AVE ELMSFORD NEW YORK USA	B SC 1 RI 8 8498	YOUNG YUET MING ANNIE ROYAL VICTORIA COLLEGE 58 CONNAUGHT RD W HONG KONG	B SC 4 VI 2 0327
YIP LIN HEE 3561 LORNE AVE MONTREAL QUE	M S W 1	YOUNG LAI PHILIP 620 PRINCE ARTHUR ST W FOREST RESERVE TRINIDAD W I	B ENG CIV 3
YOCHALAS SANDRA 604 68TH AVE L ABORD A FLOUFFE QUE	3 TCHRS	YOUNGE DORINDA JOY STEWART HALL SHAWVILLE QUE	2 TCHRS 1
YOKALE RICHARD FRANK 3453 SHUTER ST MTL BOX 321 VALD OR QUE	B SC 1	YOUNIE ANNE EMILY 2475 MAPLEWOOD AVE APT 4 MONTREAL QUE	GRAD DIP 1 RE 9 5641
YONELINAS EDDIE PETER 6930 36TH AVE MONTREAL 36 QUE	M B D DIP RA 1 9411	YOUNES ROBERT PAUL DOUGLAS HALL 8838 7TH AVE BROOKLYN 9 N Y USA	MD CM 1
YONG RAYMOND 2058 VICTORIA ST MONTREAL 2 QUE	PH D 3 VI 2 7544	YOYETICH WILLIAM STEVEN 3560 DUROCHER ST APT 2 112 TORRANCE ST FORT ERIE ONT	B SC 2 VI 9 2806
YOUDIM MOUSSA BEN HUR 3656 DUROCHER ST APT 3 DANESHGAH AVE BISMETRY DEVOME MEPHTAH ST NO 10 TEHERAN IRAN	B SC 2	YU CHOK 3452 PARK AVE APT 1 MTL 21 ARBUTHNOT RD 4TH FL HONG KONG	B ENG 1 VI 5 8781
YOUNG ANNE WALLACE 584 WALPOLE AVE TOWN OF MT ROYAL QUE	B A 3 RE 8 0985	YU CHUNG 3452 PARK AVE APT 1 MTL 21 ARBUTHNOT RD 4TH FL HONG KONG	B ENG 1 VI 5 8781
YOUNG CHUN MAN PETER 378 PRINCE ARTHUR ST W MONTREAL QUE	B SC 3	YU CHUNG KAY CHO FUI 375 PRINCE ARTHUR ST MONTREAL QUE	B ENG MCH 5
YOUNG DANIEL JOAQUIM 3660 DUROCHER APT 3 MTL 74 AVENIDA REPUBLICA MACAO	B ENG CIV 3	YUDKOVITCH NATHAN T 3180 BARCLAY AVE APT 6 MONTREAL QUE	B SC 2 RE 1 5259
YOUNG DAVID DONALD 3295 BARCLAY AVE MONTREAL QUE	B ENG CIV 5 RE 9 9077	YUDIN MURRAY 3485 VAN HORNE AVE APT 9 MONTREAL QUE	M A 1 RE 1 0955
YOUNG GIBSON WARD 3434 MCTAVISH ST MTL WARWICK BERMUDA	B SC 2 VI 2 4492	YUDKOVITCH ISSIE PHILIP 5719 ESPLANADE AVE MONTREAL QUE	B ENG 2 CR 2 5084
YOUNG GILBERT RICHARD D MACDONALD COLLEGE R R 2 CALUMET QUE	2 TCHRS	YUEN AUDREY PIK SAI 3581 LORNE AVE APT 4 MTL 75 REPULSE BAY RD HONG KONG	B ARCH 6 VI 5 7718
YOUNG HORACE O R 1001 SHERBROOKE ST W MTL 10 SCOTT BUSHE ST PORT OF SPAIN TRINIDAD W I	MD CM 2 VI 4 0811	YVILLE JOHN CHARLES 4503 DECARIE BLVD APT 8 MONTREAL QUE	B SC 2 HU 1 5837
YOUNG LORNA BELL BIRCH HILL AVE HUDSON HEIGHTS QUE	3 TCHRS	YUNG TAI FONG 3841 JEANNE MANCE ST MTL 59 MAIN ST OTTAWA ONT	B ENG CIV 5
YOUNG LESLIE GORDON BOX 237 MACDONALD COLLEGE STE ANNE DE BELLEVUE QUE	PARTIAL	YUNG TIN LAM 529 PRINCE ARTHUR ST 48 WHARF RD GR FL HONG KONG	B ENG 1
YOUNG MANUEL 6405 DE VIMY MONTREAL QUE	B A 3 RE 3 8152	ZABITSKY FREYA FRANCES 73 DUFFERIN RD MONTREAL 29 QUE	B A 1 HU 4 2797
YOUNG ROBERT EDGAR 4563 KENSINGTON AVE MONTREAL 28 QUE	B ENG MCH 1		

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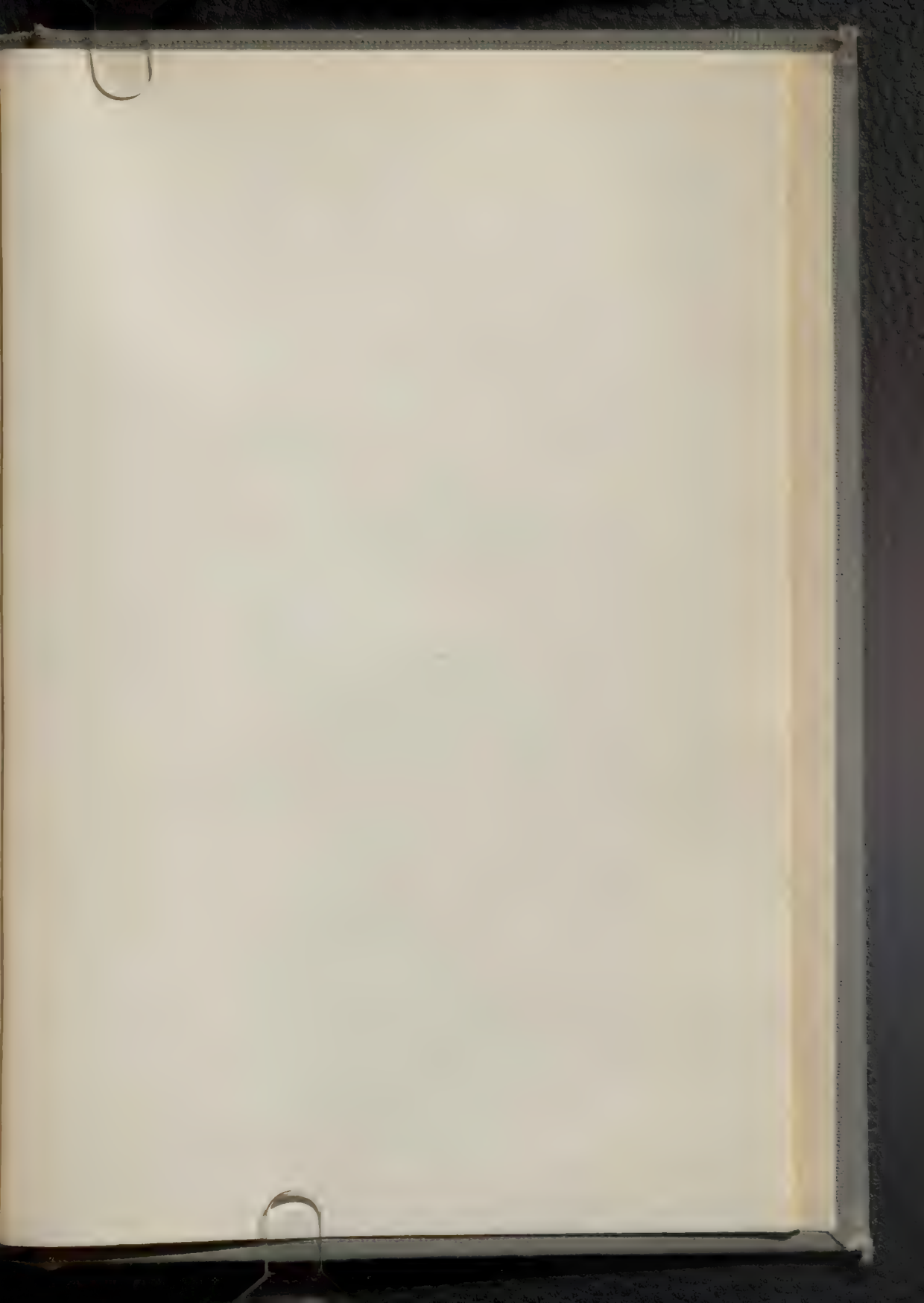
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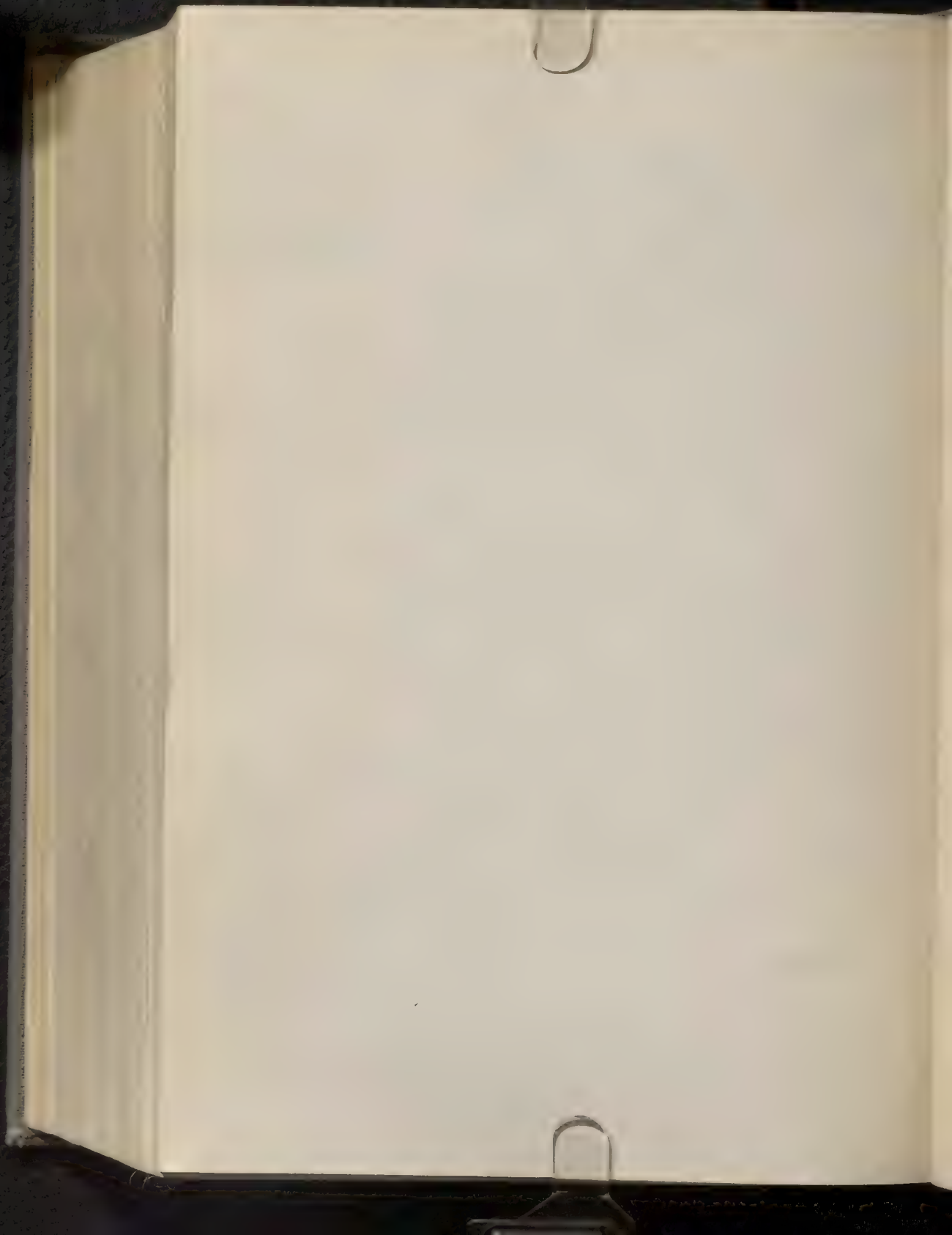
NAME ADDRESS	COURSE & YEAR TEL. NO.	NAME ADDRESS	COURSE & YEAR TEL. NO.
ZACHARATOS JOHN 6159 EHERSBROOKE ST W 496 EGLINTON AVE E TORONTO 12 ONT	B ENG 2	ZELKO DANIEL MILAN 1425 OUIMET ST APT 16 442 GRANT AVE VERONA PA USA	MD CM 4
ZACKON DAVID LYON 3650 MOUNTAIN ST APT 301 MONTREAL QUE	B ENG EL 4 VI 5 1503	ZELKOWITZ LILLY 3370 BEDFORD RD APT 3 MONTREAL QUE	B A 1 RE 7 7569
ZADEM MICHAEL 3770 ST KEVIN MONTREAL 26 QUE	B ENG 2 RE 3 8966	ZELNICKER RHODA 709 STUART AVE OUTREMONT QUE	B SC 8 CR 7 1635
ZAIKHUK PETER MICHAEL 363 RACHEL ST E MONTREAL 18 QUE	B COM 2 AV 8 4682	ZELNICKER SANDRA SARAH 709 STUART AVE OUTREMONT QUE	B SC 4 CR 7 1635
ZALITE PETER ROMAN 5895 ORLEANS MONTREAL 36 QUE	B ENG 1 RA 7 6328	ZELNIKER ERNEST 4880 JEAN BRILLANT MONTREAL QUE	B A 1 RE 7 4846
ZALTER JOSEPH 5965 MACDONALD AVE MONTREAL QUE	B ARCH 2 RE 7 8519	ZEMEL HERSHIE 466 OUTREMONT AVE OUTREMONT QUE	B SC 1 CR 2 7919
ZAMBAKA ELIE 8051 CITY COUNCILLORS ST APT 5 MTL 285 CHERRY VALLEY AVE GARDEN CITY N Y USA	B ENG 2	ZERBISIAS DEONISIA 773 WILDER AVE MONTREAL QUE	B CL 1 CR 9 9726
ZAN WATSON KAI YUNG 3407 HUTCHISON ST MTL 36 FORT ST 2ND FL NORTH POINT HONG KONG	B ENG 2 AV 8 7672	ZIDULKA ARNOLD 663 MCEACHRAN AVE OUTREMONT QUE	B SC 2 CR 4 9597
ZANOWILL SHEELA M 5848 MOUNTAIN SIGHTS AVE MONTREAL QUE	B A 2 MU 9 4861	ZIGBY JEAN PAUL 4339 WILSON AVE MTL 315 ST JEAN ST GRANDY QUE	B CL 4 MU 9 6421
ZANYI ZOLTAN 3643 LORNE AVE MONTREAL QUE	B A 4 VI 9 9892	ZIGBY STANLEY ALIE 330 MELBOURNE ST TOWN OF MT ROYAL 135 ELM ST GRANDY QUE	B ENG 1
ZARKADAS CONSTANTINOS G 2655 MARCEL ST MTL 70 MESSEGIION ST AMAROVSION ATHENS GREECE	PARTIAL FE 4 1351	ZIKMAN JERROLD MALCOLM 5569 KING GEORGE AVE COTE ST LUC QUE	B SC 3 MU 4 8849
ZAROVITCH SHEILA SARAH 19 GARDEN CITY STE ANNE DE BELLEVUE QUE 6356 COOLBROOKE AVE MONTREAL QUE	3 TCHRS	ZINGER ANNA 2183 MAPLEWOOD AVE APT 28 MONTREAL QUE	B A 1 RE 9 0368
ZAVALA JULIO ERNESTO 3453 SHUTER ST MTL 28 DE JULIO 1443 SAN ANTONIO MIRAFLORES LIMA PERU S A	B ENG 1 VI 9 4371	ZLOTNIK ISRAEL 5260 RANDALL AVE APT 8 MONTREAL 29 QUE	B COM 4 MU 4 0625
ZAVALKOFF JUDITH H 497 OUTREMONT AVE MONTREAL 8 QUE	B A 2 CR 9 2445	ZNAIMER MOSES 5036 ST URBAIN ST MONTREAL QUE	B A 1 CR 9 2305
ZAVALKOFF RUTH 499 OUTREMONT AVE MONTREAL 8 QUE	B A 4 CR 1 3044	ZOLLMANN ZVI PAUL 1463 BISHOP ST APT A5 MTL 7841 FIELDING AVE APT 305 MONTREAL QUE	B ENG COM 5 VI 9 1589
ZEIDEL ALLAN LARRY 790 ABBOTT ST VILLE ST LAURENT QUE	B SC 2 RI 4 1335	ZORNBERG ERIC I 5186 WESTBURY AVE MONTREAL QUE	B SC 2 MU 6 5648
ZEISLER BERNARD 1969 ST GERMAIN BLVD VILLE ST LAURENT QUE	B ENG PHY 3	ZORZI ROBERT PAUL 1601 PEEL ST ST EUSTACHE SUR LE LAC QUEBEC	B ENG 1
ZEISLER BETTY CLAIRE 554 GROSVENOR AVE WESTMOUNT QUE	B SC 3 WE 7 1210	ZORZI WALTER JOSEPH 1601 PEEL ST ST EUSTACHE SUR LE LAC QUEBEC	B ENG 1
ZEISLER JUDITH S 554 GROSVENOR AVE WESTMOUNT QUE	B A 2 WE 7 1210	ZSIRAI ANDREW 6950 WILDERTON ST APT 2 MONTREAL QUE	B ENG EL 4 RE 3 1008
ZELENKA MARIA 3465 SIMPSON ST MONTREAL QUE	B ENG EL 4 WE 5 0333	ZSOMBOR MURRAY PAUL J A 417 PRINCE ARTHUR ST W P O BOX 36 BROWNSBURG QUE	M ENG 1 VI 9 9038
ZELIKOVITZ LAURA EILEEN 184 BEVERLEY AVE MONTREAL QUE	B A 2 RE 7 7482	ZUCKER IRVING 829 ST VIAEUR ST W MONTREAL QUE	B SC 3 CR 7 0459
		ZUCKERMAN HOWARD W 3841 FOREST HILL MTL 7548 PARKDALE CLAYTON MO USA	B DS 4 RE 3 9126

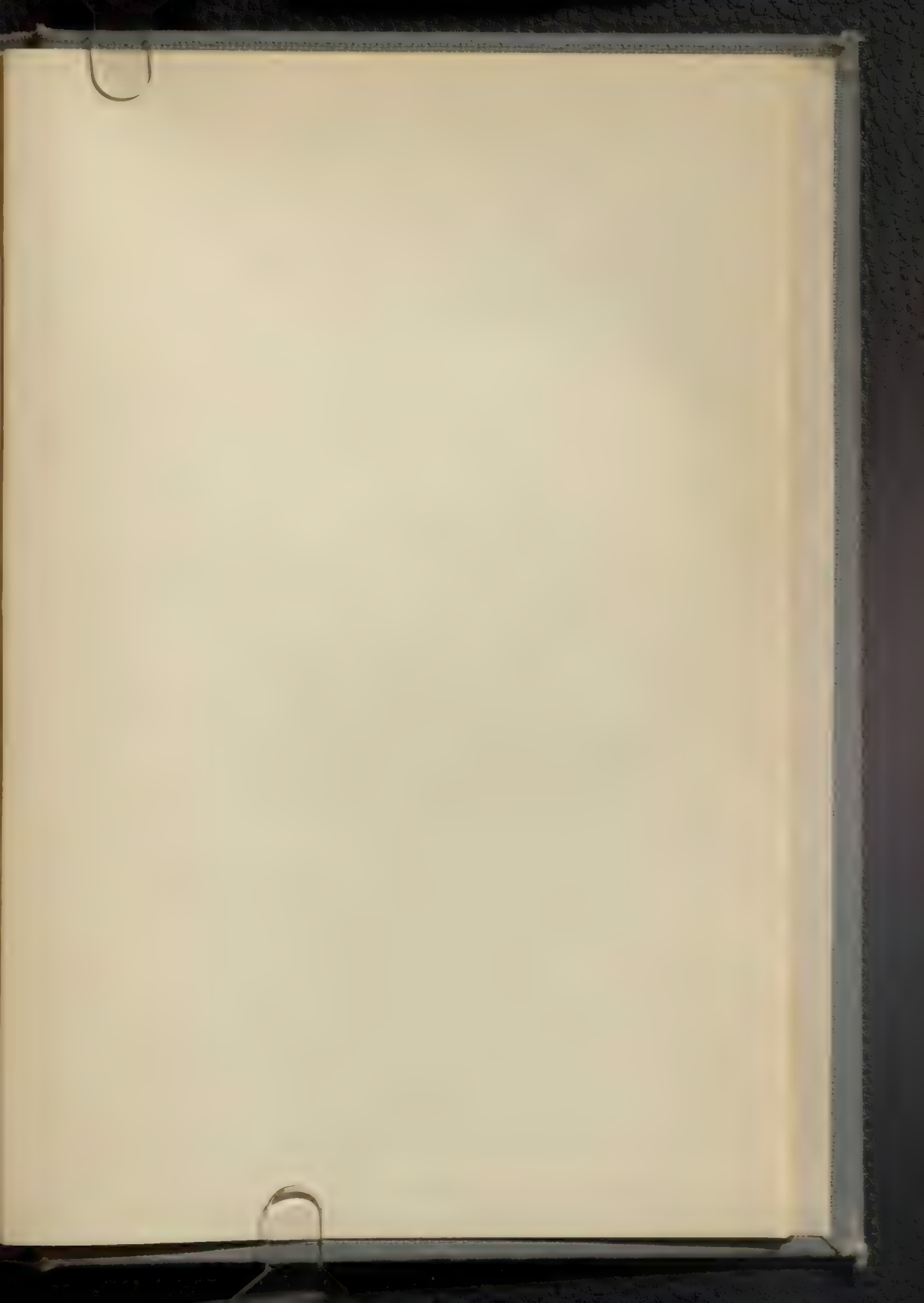
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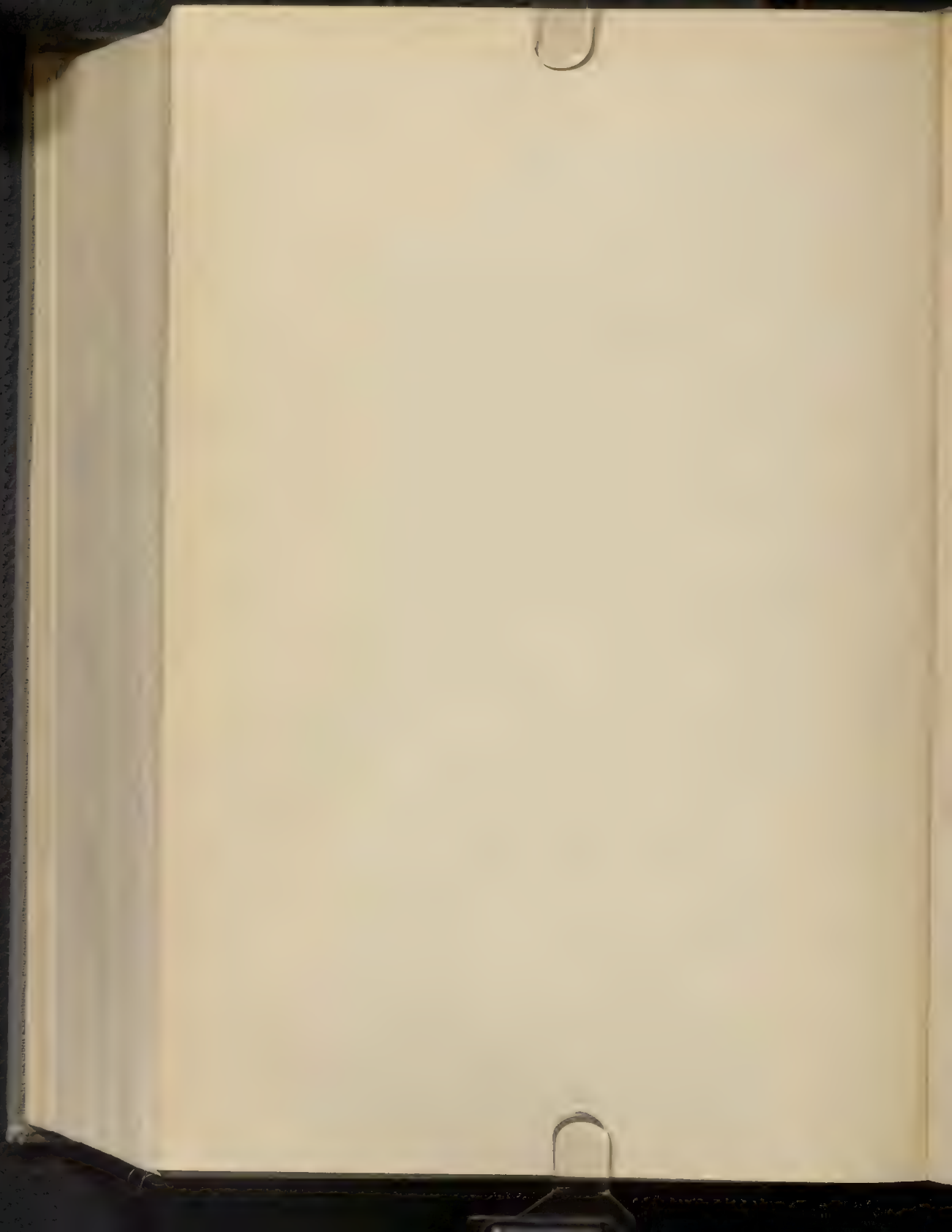
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ZUCKERMAN MORTIMER B 5862 PLANTAGENET PL MONTREAL QUE	B C L 2 RE 8 7004	ZURIF EDGAR B 4813 LACOMBE AVE MONTREAL QUE	B ENG MET 4 RE 7 0762
ZUCKERMAN BARRY 3851 MACKENZIE MONTREAL QUE	B ENG 2 RE 7 8715	ZWARTS FRANK JOHN 5560 LAVOIE AVE MONTREAL 26 QUE	B ENG 2 RE 3 9773
ZULON THOMAS ALBERT 3420 GREY ST MTL 14 SIGELOW ST CAMBRIDGE MASS USA	B SC 4	ZYK NAOMI 5810 VAN HORNE AVE APT 4 MONTREAL QUE	B SC 2 RE 3 0567











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DUE	RETURNED
R. R. MAY 26 1970	MAY 26 1970
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M MAY 23 1974	MAY 17 1974
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